Canon

iR3250

Network Guide

Please read this guide before operating this equipment.
After you finish reading this guide, store it in a safe place for future reference.

ENGLISH

iR3250
Network Guide

Preface

Thank you for purchasing the Canon iR3250.
This manual describes the machine, its functions, and its methods of use. It also describes the various precautions to be observed in order to ensure safe operation. Please read this manual thoroughly before operating the machine in order to familiarise yourself with its capabilities, and to make the most of its many functions. After reading this manual, store it in a safe place for future reference.

CAUTION:

In this manual, CAUTION MESSAGES with this symbol indicate that neglecting the suggested procedure or practice could result in personal injury.

NOTICE:

Considerable effort has been made to make sure that this manual is free of inaccuracies and omissions. However, as we are constantly improving our products, some of the data contained herein may not exactly reflect the current model of the particular product with which this manual has been included. If you have a need for an exact specification, please contact Canon for the current specification.

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About Abbreviations

In this guide:
Microsoft® Windows® 95 is referred to as Windows 95.
Microsoft® Windows® 98 is referred to as Windows 98.
Microsoft® Windows NT® is referred to as Windows NT.
Microsoft® Windows® 2000 is referred to as Windows 2000.

About the Manuals for the Machine

Printed Manual

Setup Guide

The *Setup Guide* gives a general overview of the machine, and also describes simple setup methods from the computer through producing printed output.

Online Manuals

User's Guide

The *User's Guide* describes the principal functions and basic operations of the machine. Turn to this *User's Guide* for general operating instructions.

Reference Guide

The *Reference Guide* describes how to set up and change various functions of the machine to suit the user's conditions and environment. For example, you can set the amount of time before the machine goes into the sleep mode when unused, you can turn on and off various automatic features, and you can set up security features.

Maintenance Guide

The *Maintenance Guide* describes how to load paper and toner, clean the machine, remove paper jams, and solve other hardware problems with the machine.

Remote UI User's Guide

The *Remote UI User's Guide* describes the main features of the Remote UI and how to change a variety of settings using the Remote UI.

PostScript/PCL Reference Guide

The *PostScript/PCL Reference Guide* describes the basic uses of the machine's printer functions, as well as how to handle printing problems that may occur.

PCL Driver Guide

The *PCL Driver Guide* describes the main features of the printer functions, and tells you how to change the factory print settings.

Network Guide (This Document)

This *Network Guide* describes settings for connecting the machine to a network for printing, as well as e-mail/I-fax settings, and settings for sharing files sent from the machine to a network server.

Fax Reference Guide

The *Fax Reference Guide* describes the main features for sending and receiving faxes, and how to change the factory settings for the fax functions.

How This Manual Is Organized

Chapter 1 Before You Start

Describes system and network environments required for using the machine on a network.

Chapter 2 Using a TCP/IP Network

Describes procedures for setting up the machine on a TCP/IP network.

Chapter 3 Using a NetWare Network (Windows)

Describes procedures for setting up the machine on a NetWare network.

Chapter 4 Using an AppleTalk Network

Describes procedures for setting up the machine on an AppleTalk network.

Chapter 5 Using the Network and Printer Settings with NetSpot

Describes how to use NetSpot software for network and printer management.

Chapter 6 Appendix

Describes troubleshooting procedures and methods for checking the machine's network settings, provides lists of network menus accessed from the control panel, and lists the principal network specifications of the machine.

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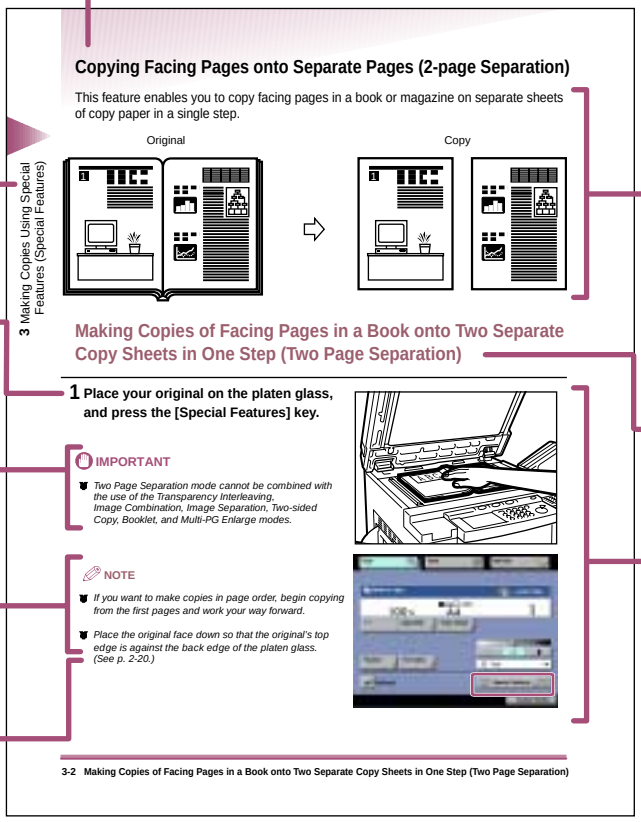
How to Use This Manual

This manual is organized as shown.


Main Heading
Chapter Heading
3 Making Copies Using Special Features (Special Features)
Copying Facing Pages onto Separate Pages (2-page Separation)
This feature enables you to copy facing pages in a book or magazine on separate sheets of copy paper in a single step.
Original
Copy
Making Copies of Facing Pages in a Book onto Two Separate Copy Sheets in One Step (Two Page Separation)
1 Place your original on the platen glass, and press the [Special Features] key.
IMPORTANT
Two Page Separation mode cannot be combined with the use of the Transparency Interleaving, Image Combination, Image Separation, Two-sided Copy, Booklet, and Multi-PG Enlarge modes.
NOTE
If you want to make copies in page order, begin copying from the first pages and work your way forward.
Place the original face down so that the original's top edge is against the back edge of the platen glass. (See p. 2-20.)
3-2 Making Copies of Facing Pages in a Book onto Two Separate Copy Sheets in One Step (Two Page Separation)

Operation Instructions
Numbered steps describe how to set and operate various functions.

Cautionary Information
Presents cautionary information or warnings related to operation.

Supplementary Description
Provides supplementary description of operations or reference information.

Reference
Page and chapter numbers containing related items are provided.

Description of Modes and Operations
Illustration provides easy-to-understand description of the results of the operation.

Sub-heading

Illustration
Shows key location, status of operation, etc.

The above page does not actually exist in this manual.

Symbols Used in This Manual

IMPORTANT	Indicates important items or prohibited actions that should always be observed when operating the machine. These should always be read to avoid damage to the machine or improper operation.
NOTE	Indicates items for reference or supplementary information that should be noted by users.

Key names are shown in this manual as follows:

Control panel keys.....

key

Touch panel display keys..... [OK]

Before You Start

CHAPTER 1

This chapter describes what you need to know before you start using the machine, including the network environments the machine is compatible with, and how to check the network environment you are using.

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System Environment Requirements

System Environment Requirements for Printing

The following network and system environments are compatible when printing with the machine.

● **Printing using a TCP/IP network:**

Compatible OS:	Microsoft Windows 95/98
	Microsoft Windows NT Server 4.0
	Microsoft Windows NT Workstation 4.0
	Microsoft Windows 2000 Server
	Microsoft Windows 2000 Professional
	Solaris Version 1.1x (SunOS Version 4.1x) or later
	Solaris Version 2.5x (SunOS Version 5.5x) or later
Compatible computers:	Windows 95/98/NT/2000; IBM PC/compatibles

● **Printing using a NetWare network:**

Compatible servers:	Novell NetWare Version 3.2/4.1/4.11/4.2/5
Compatible clients:	Microsoft Windows 95/98
	Microsoft Windows NT Server 4.0
	Microsoft Windows NT Workstation 4.0
	Microsoft Windows 2000 Server
	Microsoft Windows 2000 Professional
Compatible computers:	IBM PC/compatibles

● **Printing using an AppleTalk network:**

Compatible AppleTalk: EtherTalk Phase2

For more information on the OS and computers supported, see the *Setup Guide*.

IMPORTANT

- *If you are using Windows NT 4.0, you will need to install Service Pack 5 or later.*
- *The machine does not support Macintosh LocalTalk networks.*

System Environment Requirements for Using E-mail/I-Fax

● **The following system environment is required for using the e-mail/I-fax functions.**

The machine sends e-mail/I-fax messages to mail servers using the SMTP protocol.
The machine can receive incoming e-mail/I-fax messages from a mail server using the POP3 protocol or directly using the machine's own SMTP receiving function.
If the latter method is used, it is not necessary for the mail server to support the POP3 protocol.

Compatible mail forwarding server software:	Sendmail 8.9.3 Microsoft Exchange Server 5.5 + SP2 Lotus Domino R5
Compatible mail receiving server software:	qpopper 2.43 Microsoft Exchange Server 5.5 + SP2 Lotus Domino R5

System Environment Requirements for File Sharing

The following network and system environments apply when using the machine both to send documents to a file server and to share files, depending on the type of network used.

● **Using a NetWare network:**

Compatible server: Novell NetWare Version 3.2/4.11/4.2/5
Compatible protocol: IPX

IMPORTANT

• When using a NetWare 3.x server, it is necessary to support long file names.

● **Using a NetBIOS network (File Sharing for Windows):**

Compatible servers: Microsoft Windows 95/98
Microsoft Windows NT Server 4.0
Microsoft Windows NT Workstation 4.0
Microsoft Windows 2000 Server
Microsoft Windows 2000 Professional
Compatible protocol: NetBIOS over TCP/IP (NetBT)

● **Using FTP:**

Compatible servers: Microsoft Windows NT Server 4.0 and Internet Information Server 4.0
Microsoft Windows 2000 Server and Internet Information Server 5.0
Solaris Version 2.6 or later
Compatible protocol: TCP/IP

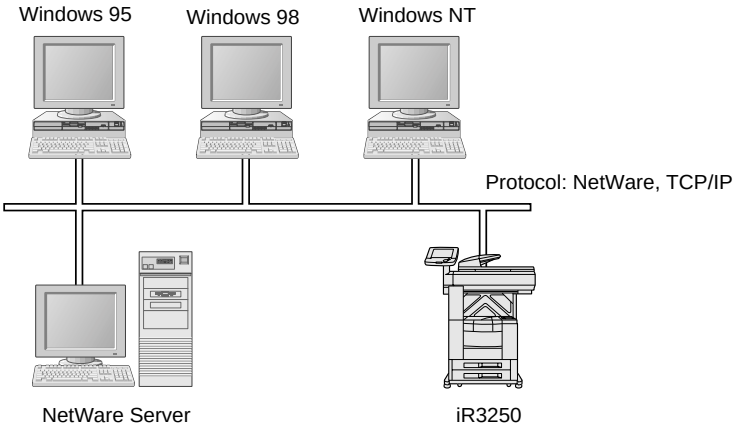
IMPORTANT

• If you are using Windows NT 4.0, you need to install Service Pack 5 or later.

Checking Your Network Environment

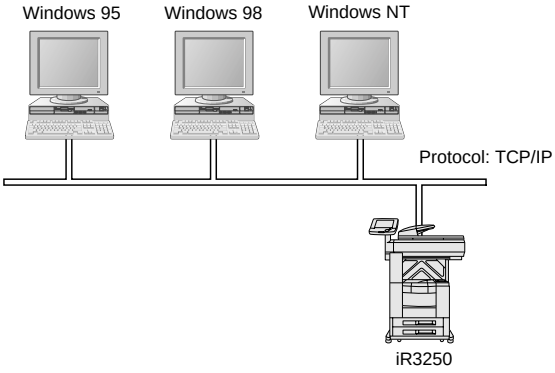
Refer to the following diagram example to confirm the network environment that is connected to the machine, and then perform the necessary operations.

Sample Windows 95/98/NT/2000 Network (With a NetWare Server)



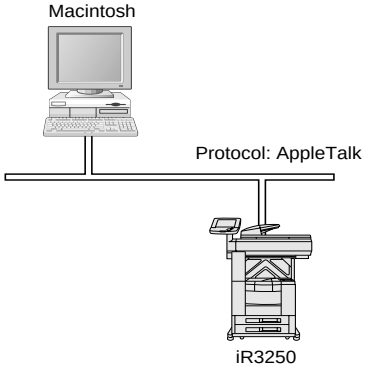
In a network environment like the one above, either NetWare or TCP/IP protocol can be used for printing or file sharing. Multiple protocols can also be used at the same time.
Depending on the protocol, see either “Using a TCP/IP Network,” on p. 2-1 or “Using a NetWare Network (Windows),” on p. 3-1.
The use of e-mail or I-fax functions require the TCP/IP protocol. (See “Using a TCP/IP Network,” on p. 2-1.)

Sample Windows 95/98/NT/2000 Network (Without a NetWare Server)



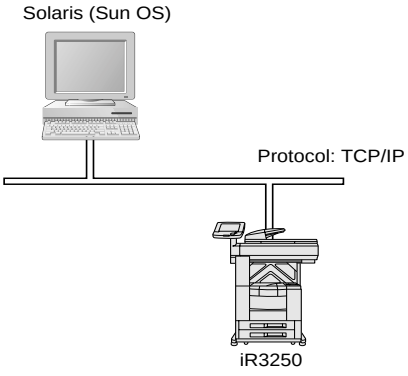
In a network environment like the one above, the TCP/IP protocol can be used. (See “Using a TCP/IP Network,” on p. 2-1.)

Sample Macintosh Network



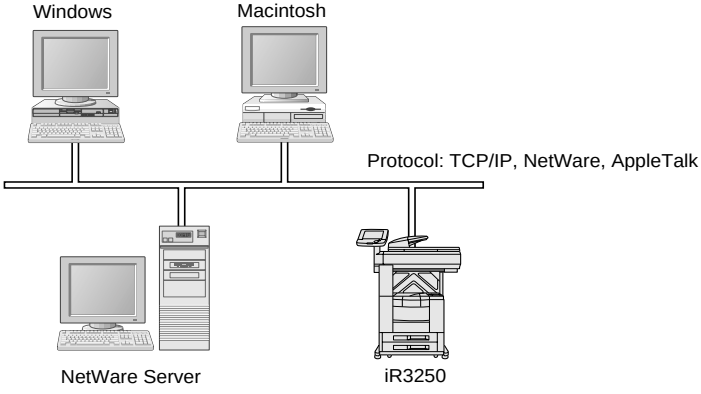
In a network environment like the one above, the AppleTalk (EtherTalk) protocol is used for printing. (See “Using an AppleTalk Network,” on p. 4-1.)
The use of e-mail or I-fax functions requires the TCP/IP protocol. (See “Using a TCP/IP Network,” on p. 2-1.)

Sample UNIX Network



With UNIX computers, the TCP/IP protocol is used. (See “Using a TCP/IP Network,” on p. 2-1.)

Using a Network With Various Types of Computers



When there are various types of computers on the network, network operations depend on the type of computer being used.
For example, if Windows 98 and Macintosh computers are used, you will need to enter the settings described in both the “Sample Windows 95/98/NT/2000 Network” and “Sample Macintosh Network” sections.
The use of e-mail or I-fax functions requires the TCP/IP protocol. (See “Using a TCP/IP Network,” on p. 2-1.)

Using a TCP/IP Network

CHAPTER 2

This chapter describes the settings and procedures necessary to connect and use the machine with a TCP/IP network.

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TCP/IP Network Setup Operating Procedures

To use a TCP/IP network, it is first necessary to enter the Ethernet driver settings and IP address settings. You also need to enter e-mail/I-fax settings, as well as settings for printing and file sharing if necessary.

Setup Preparations

Ethernet driver and IP address settings.

These settings are entered from the control panel of the machine. You can also use the Remote UI to change the values of these settings.

IMPORTANT

• It is recommended that a network manager enters Ethernet driver and IP address settings.

1 Enter the Ethernet driver settings.

(See “Setting Up the Ethernet Driver,” on p. 2-5.)

2 Enter the IP address settings.

(See “Setting the IP Address,” on p. 2-7.)

E-mail/I-Fax Settings

The following operations are necessary to enter e-mail/I-fax settings.
E-mail/I-fax settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the *Remote UI User's Guide*.

IMPORTANT

• It is recommended that a network manager enters the e-mail/I-fax settings.

1 E-mail/I-Fax settings.

(See “Entering E-mail and I-Fax Settings,” on p. 2-11.)

Printing Settings

The following operations are necessary to enter printing settings.

1 Computer settings for printing.

Enter settings for each computer you use for printing.

- **Using Windows**
  (See "Setting Up a Computer for Printing (Windows)," on p. 2-14.)
- **Using UNIX**
  (See "Setting Up a Computer for Printing (UNIX)," on p. 2-23.)

NOTE

• The machine's Salutation Print Functional Unit enables you to do the following:
- Manage print jobs sent to the machine from a personal computer. This enables you to view job lists, cancel jobs, etc.
- Notify a personal computer about the status of the machine. This enables the machine to send information about installed optional equipment, low paper levels, etc.
• The use of the Salutation Print Functional Unit requires Ethernet driver and IP address settings. (See "Protocol Settings," on p. 2-5.) The use of the Salutation Print Functional Unit also requires Salutation-compatible software such as IBM NuOffice. For the necessary Salutation software and computer settings, see the manuals provided with the respective products. Also, this Print Functional Unit may be affected by limitations from Salutation-compatible software. (See the related manuals.)

File Sharing Settings

The following settings are necessary to send files to servers, and to share files on servers over a network.

IMPORTANT

• It is recommended that a network manager enters the e-mail/I-fax settings.

1 Computer settings (File Sharing Settings).

- **Using Windows 95/98 (See "Using Windows 95/98," on p. 2-25.)**
- **Using Windows NT (See "Using Windows NT 4.0," on p. 2-28.)**
- **Using Windows 2000 (See "Using Windows 2000," on p. 2-36.)**
- **Using UNIX (See "Using UNIX," on p. 2-43.)**

2 The machine's Settings (File Recipient Address Settings).

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the *Remote UI User's Guide*. For instructions on using the control panel, see the *User's Guide*.

Protocol Settings

This section describes how to enter Ethernet driver settings, IP address settings, and e-mail/I-fax settings.
These settings can be entered by either of the following methods:

The machine's control panel

The Remote UI

NOTE

- *The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser. For instructions on using the Remote UI, see the* Remote UI User's Guide*.*
- *You can also specify IP address settings using NetSpot. For instructions on entering settings using NetSpot, see Chapter 5, "Network and Printer Settings Using Netspot."*

Settings from the Control Panel

IMPORTANT

- *Settings entered from the control panel become enabled after the machine is restarted (with the power switches).*
- *For details about entering characters using the touch panel display, see the* User's Guide*.*

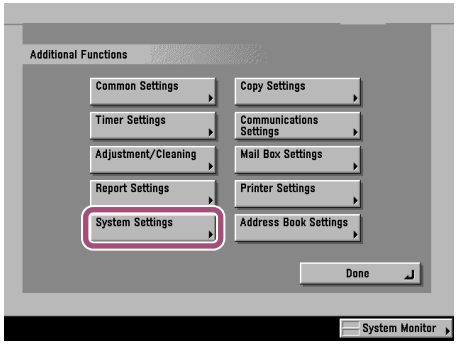
Setting Up the Ethernet Driver

1 **Press the key.**

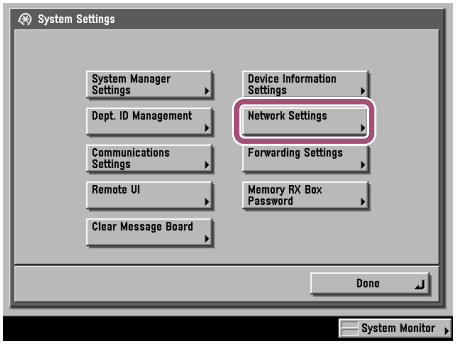
2 **Press the [System Settings] key.**

IMPORTANT

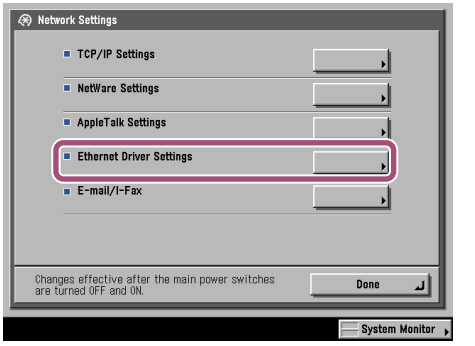
- *If the message "Enter the System Manager ID and Password using the numeric keys" appears in the touch panel display, enter the System Manager ID and password. For instructions on entering the System Manager ID and password, see the* User's Guide*.*



3 Press the [Network Settings] key.

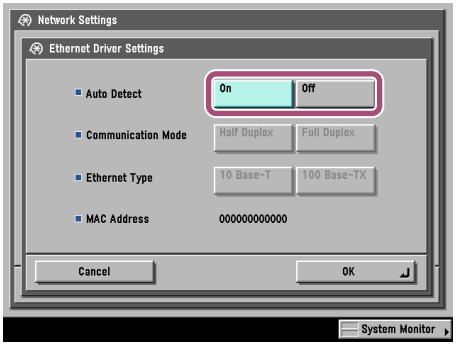


4 Press the [Ethernet Driver Settings] key.



5 Select Auto Detect [On] or [Off].

- **If [On] is selected**
  Determines the communication mode (Half duplex/Full duplex) and Ethernet type (10 Base-T/100 Base-TX) automatically. Go to step 8.
- **If [Off] is selected**
  Enables you to enter the communication mode (Half duplex/Full duplex), and Ethernet type (10 Base-T/100 Base-TX) manually. Go to step 6.



NOTE

• The factory setting is [On]. Use the [Off] setting to specify a particular Ethernet setting.

6 **Select the Communication Mode.**

Select the appropriate communication mode for your network environment.

- **When [Half Duplex] is selected**
  Sending and receiving is alternated.
- **When [Full Duplex] is selected**
  Sending and receiving is simultaneous.

7 **Select the Ethernet Type.**

Select the appropriate Ethernet type for your network environment.

- **When [10 Base-T] is selected**
  The network is compatible with 10 Base-T connections.
- **When [100 Base-TX] is selected**
  The network is compatible with 100 Base-TX connections.

8 **Confirm the settings you entered and press the [OK] key.**

The display returns to the Network Settings screen.

Continue to the next section and set the IP address.

Setting the IP Address

NOTE

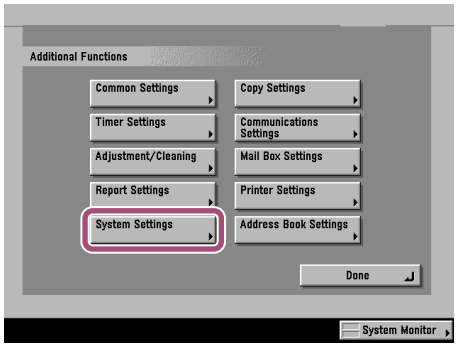
• When settings are made using DHCP, BOOTP, or RARP, the setting values will appear on the TCP/IP Settings screen after the machine is restarted. (If the IP address, host name, and domain name have been set previously, these will be overwritten by the settings made using DHCP, BOOTP, or RARP.)

1 **Press the Additional Functions key.**

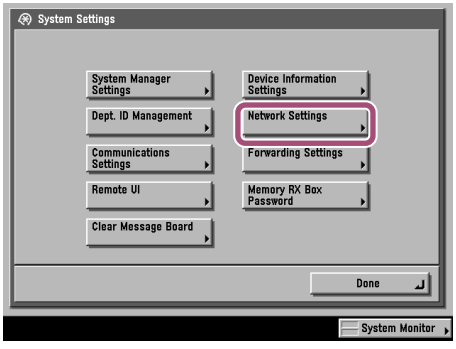
2 **Press the [System Settings] key.**

IMPORTANT

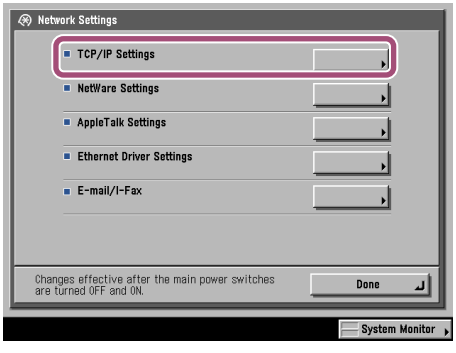
• If the message "Enter the System Manager ID and Password using the numeric keys" appears in the touch panel display, enter the System Manager ID and password. For instructions on entering the System Manager ID and password, see the User's Guide*.*



3 **Press the [Network Settings] key.**

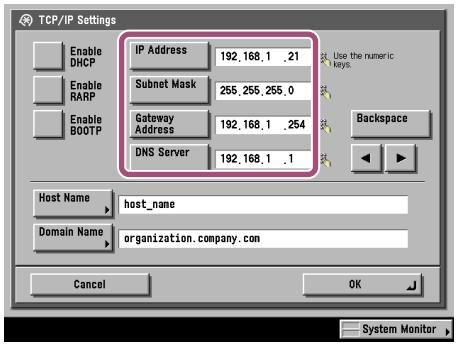


4 **Press the [TCP/IP Settings] key.**



5 Enter the address settings.

Enter the address settings using the keypad on the control panel.



IMPORTANT

- *For information on entering characters using the touch panel display, see the* User's Guide*.*
- *Only one of the DHCP, BOOTP, or RARP settings can be checked at one time.*
- *Even when using the DHCP, BOOTP, and RARP settings, you should enter an IP Address, Subnet Mask, and Gateway Address. If this information cannot be obtained from the DHCP, BOOTP, or RARP server, the settings entered from the control panel are used.*
- *When using DHCP, it is recommended that identical IP address be assigned to the machine at all times. (If the identical IP address is not assigned, the machine's host name cannot be related to the machine's IP address.)*
- *It takes about two minutes to check whether the DHCP, BOOTP, or RARP settings can be used. If you do not plan to use one of these settings, it is recommended that you turn them off.*

- **Using a fixed IP address**
  Press the [IP Address] key, and enter the IP address using the keypad.
- **Using DHCP**
  Press the [Enable DHCP] key. Enter the IP Address, Subnet Mask, and Gateway Address. (If this information cannot be obtained by the DHCP, the settings entered from the control panel are used.)
- **Using RARP**
  Press the [Enable RARP] key. Enter the IP Address, Subnet Mask, and Gateway Address. (If this information cannot be obtained by the RARP, the settings entered from the control panel are used.)

- **Using BOOTP**
  Press the [Enable BOOTP]. Enter the IP Address, Subnet Mask, and Gateway Address. (If this information cannot be obtained by the BOOTP, the settings entered from the control panel are used.)

6 **Enter the DNS Server.**

If you are using a DNS server, press the [DNS Server] key and enter the address of the DNS server.

7 **Enter the Host Name and Domain Name.**

For the Host Name, press the [Host Name] key and enter the name of your machine. For the Domain Name, press the [Domain Name] key and enter the domain name of the network to which your machine belongs. Each name can be up to 47 characters in length.

- **Example**
  Host name: host_name
  Domain name: organization.company.com

8 **Confirm the settings you entered, and press the [OK] key.**

The display returns to the Network Settings screen.

9 **Press the [Done] key.**

Repeat until the Additional Functions screen closes.

10 **Restart the machine.**

Turn the printer unit power switch, the scanner unit power switch, and the control panel power switch to OFF, and then turn the power to ON after waiting at least 3 seconds.

NOTE

• If you are entering additional e-mail/I-fax settings, you do not need to restart the machine at this point. Finish entering the e-mail/I-fax settings, and then restart the machine.

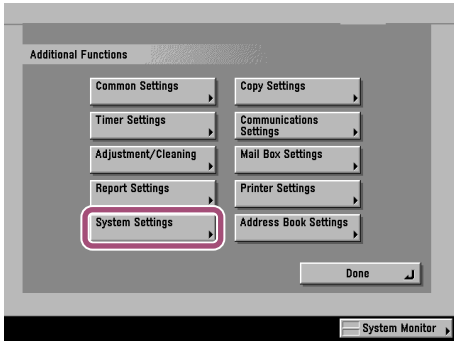
The settings are now complete.

1 **Press the Additional Functions key.**

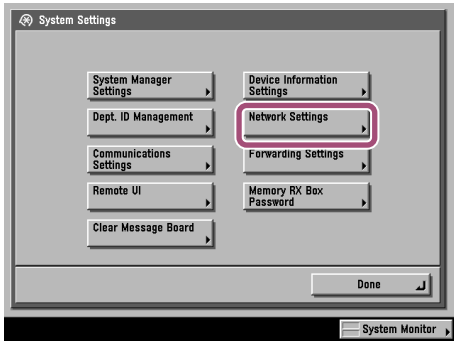
2 **Press the [System Settings] key.**

IMPORTANT

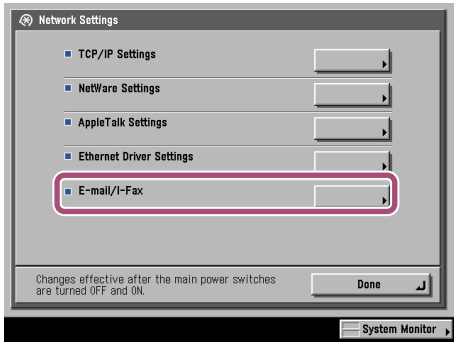
- *If the message "Enter the System Manager ID and Password using the numeric keys" appears in the touch panel display, enter the System Manager ID and password. For instructions on entering the System Manager ID and password, see the* User's Guide.



3 **Press the [Network Settings] key.**

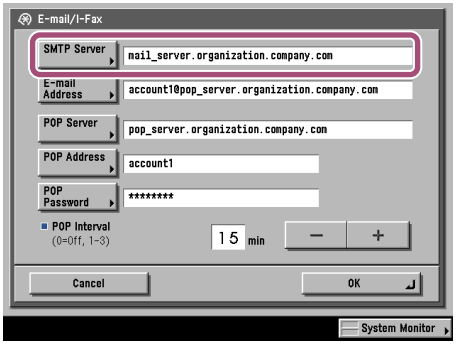


4 **Press the [E-mail/I-Fax] key.**



5 Enter the SMTP Server settings.

Press the [SMTP Server] key to enter a SMTP server IP address or name. Up to 48 characters can be entered.



● **Example**
IP address: 192.168.1.1
Name:
mail_server.organization.company.com

IMPORTANT

• IP Address segments of less than three digits should not be filled with leading zeroes (do not enter as 001, 023, etc.).

6 Enter the E-mail Address.

To send and receive e-mail and I-faxes, it is necessary to enter the address of your machine. Press the [E-mail Address] key, then enter the address up to 64 characters.

Your machine supports both SMTP and POP3 functions. To receive using SMTP, you need to register the host name of your machine with the DNS server and then enter the host name after the "@" symbol in the e-mail address.

● **Example**
To receive e-mail/I-fax messages using POP3:
account1@pop_server.organization.company.com
(In this example the name of the POP server is "pop_server.organization.company.com")

To receive e-mail/I-fax messages using SMTP:
account1@host_name.organization.company.com
(In this example the host name of the machine registered with the DNS server is "host_name.organization.company.com")

If you are receiving e-mail/I-fax messages by SMTP, go to step 11.

7 Enter the POP Server for directly receiving e-mail and I-faxes.

If you want to use a POP Server to receive e-mail and I-faxes, press the [POP Server] key and enter a POP Server IP address or name. Up to 48 characters can be entered.

● **Example**
IP address: 192.168.1.1
Name: pop_server.organization.company.com

IMPORTANT

• IP Address segments of less than three digits should not be filled with leading zeroes (do not enter as 001, 023, etc.).

8 **Enter the POP Address.**

If you want to use a POP Server to receive e-mail and I-faxes, press the [POP Address] key, and enter the POP address. Up to 32 characters can be entered.

- **Example**
  account1

9 **Enter the POP Password.**

If you want to use a POP Server to receive e-mail and I-faxes, press the [POP Password] key, and enter the password for access to the POP Server. Up to 32 characters can be entered.

10 **Enter the POP interval.**

If you want to use a POP Server to receive e-mail and I-faxes, enter the time interval at which you want the POP Server to check for incoming mail. Press the [-] and [+] keys to set the POP interval. If the interval is set to 0, the POP Server is not checked. The interval can be set from 1 to 99 minutes.

IMPORTANT

- *The machine cannot be used to manually check the POP Server for incoming mail. To receive using the POP server, the interval must be set to a value other than "0."*

11 **Confirm the settings you entered and press the [OK] key.**

12 **Press the [Done] key.**

Repeat until the Additional Functions screen closes.

13 **Restart the machine.**

Turn the printer unit power switch, the scanner unit power switch, and the control panel power switch to OFF, and then turn the power to ON after waiting at least 3 seconds.

The protocol settings are now complete.

Setting Up a Computer for Printing (Windows)

After you have completed the protocol settings, you are ready to set up each of the computers for printing.

Connecting to a TCP/IP Network

All computers that use the machine for printing must have TCP/IP client software installed and must be enabled for TCP/IP network use. For details, refer to the manuals provided with the operating system.

Installing the Printer Driver and Specifying the Printer Destination Setting

To print from a computer you must install a printer driver and enter a setting for the printer destination. The printer destination setting differs depending on the print application used for printing. Use the following information as a guide to determine the print application you are using, and then perform the necessary operations.

NOTE

- *When using Windows NT or Windows 2000 over a network, you can set up the print servers to enable more efficient management of network printers. To set up Windows NT or Windows 2000, install the printer driver first, then setup the printer servers settings. For setting instructions, see "Print Server Settings," on p. 2-22.*

LPD

This is the print application generally used with TCP/IP. Refer to the following to install the printer driver and to enter the printer destination setting.

Windows 95/98: (See "LPD Settings (Windows 95/98)," on p. 2-15.)

Windows NT: (See "LPD Settings (Windows NT)," on p. 2-16.)

Windows 2000: (See "LPD/RAW Settings (Windows 2000)," on p. 2-18.)

RAW

This is a print application used with Windows 2000. It can print at higher speeds than LPD. Refer to the following to install the printer driver and to enter the printer destination setting.

"LPD/RAW Settings (Windows 2000)" (See p. 2-18.)

IPP

This is a print application that can be used with Windows 95/98/2000. It uses the http protocol to print using internet/intranet connections. Refer to the following to install the printer driver and enter the printer destination setting.

Windows95/98: (See “IPP Settings (Windows 95/98),” on p. 2-20)

Windows 2000: (See “IPP Settings (Windows 2000),” on p. 2-21)

IMPORTANT

- *When printing on the machine using IPP, the Pause Printing and Cancel All Documents settings on the Printer menu in the Windows print queue cannot be used. (To view the print queue, use the Start menu, select Settings-Printers, and double-click on the machine's icon.)*

LPD Settings (Windows 95/98)

1 **Install the printer driver.**

If you are using PCL, refer to the *PCL Driver Guide* for installation instructions.

If you are using PostScript, refer to the *Setup Guide* for installation instructions.

When the dialog box for selecting the printer destination appears, select Local printer. (Do not select a Network printer.)

The Port selection can be changed after installation. You can select any port, such as LPT1.

2 **Install the LPR Port Utility from the CD-ROM supplied with the machine.**

- Insert the PostScript/PCL User Software CD-ROM supplied with the machine into the CD-ROM drive.
- Double-click the My Computer icon.
- Double-click the CD-ROM drive icon.
- Double-click the LPRPORT folder.
- Double-click the Setup icon. (In some environments this icon will appear as Setup.exe.)
- The Install program will start. Follow the instructions to install the LPR Port Utility.

3 **Open the Printer Properties dialog box.**

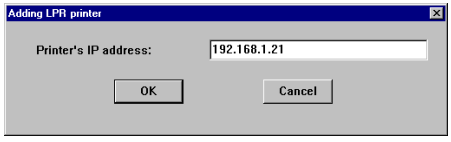
- On the Start menu, select Settings and then Printers.
- Right-click the printer icon you want to use for printing.
- Select Properties from the pop-up menu.

4 **Enter the Spool settings.**

- Click Details tab to open the Details sheet.
- Click the Spool Settings button to open the Spool Settings dialog box.
- Select the “spool print jobs so programme finishes printing faster” option.
- Click the OK button.

5 **Enter the Port settings.**

- Click the Add Port button to open the Add Port dialog box.
- Select the Other option button.
- Under the type of port you want to add:, select CANON LPR Port, and then click the OK button.
- The Adding LPR printer dialog box opens. Enter the IP address of the network printer and click the OK button.



6 **Click the OK button to enable the settings.**

The printer destination settings are now complete.

LPD Settings (Windows NT)

1 **Check that Microsoft Windows TCP/IP Printing is installed.**

- Right-click the Network Neighborhood icon on the screen, and select Properties.
- Click Services tab to open the Services sheet.
- If the Network Services list does not include Microsoft TCP/IP Printing, proceed to step 2, otherwise skip to step 3.

2 If Microsoft TCP/IP Printing is not installed, you will need to install it.

- Click the Add... button.
- Select Microsoft TCP/IP Printing from the Network Services list box, and then click the OK button.
- When prompted to insert the Windows NT setup disk, insert the disk and continue.
- After the files have been copied, the Network dialog box appears. Click the OK button.
- Click the Restart button to restart Windows NT.

3 Install the printer driver.

If you are using PCL, refer to the *PCL Driver Guide* for installation instructions.

If you are using PostScript, refer to the *Setup Guide* for installation instructions.

When the dialog box for selecting the printer destination appears, select My Computer. (Do not select a Network printer server.)

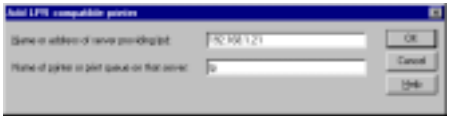
The Port selection can be changed after installation. You can select any port, such as LPT1.

4 Open the Printer Properties dialog box.

- From the Start menu, select Settings and then Printers.
- Right-click the printer icon you want to use for printing.
- Select Properties from the pop-up menu.

5 **Set up the printing destination.**

- Click Ports tab to open the Ports sheet.
- Click the Add Port... button to open the Printer Port dialog box.
- Select LPR Port and click the New Port button.
- The Add LPR compatible printer dialog box will open. Enter the IP address and printer name “lp” for the network printer, and click the OK button.



6 **Click the OK button to enable the settings.**

The printer destination settings are now complete.

LPD/RAW Settings (Windows 2000)

1 **Install the printer driver.**

If you are using PCL, refer to the *PCL Driver Guide* for installation instructions.

If you are using PostScript, refer to the *Setup Guide* for installation instructions.

When the dialog box for selecting the printer destination appears, select Local printer and remove the check mark next to Automatically detect and install Plug and Play printer. (Do not select a Network printer.)

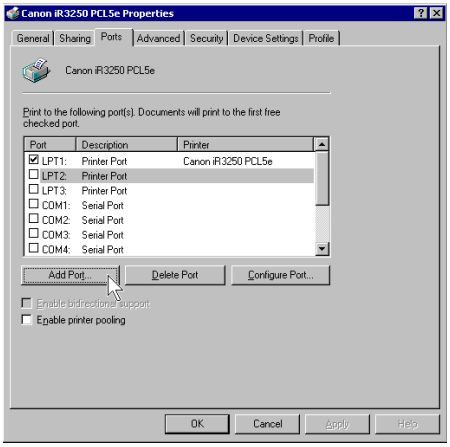
The Port selection can be changed after installation. You can select any port, such as LPT1.

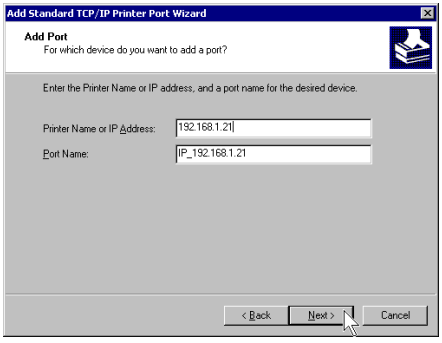
2 **Open the Printer Properties dialog box.**

- From the Start menu, select Settings and then Printers.
- Right-click the icon of the printer you want to use for printing.
- From the pop-up menu, select Properties.

3 Set up the printing destination.

- Click Ports tab to open the Ports sheet.
- Click the Add Port... button to open the Printer Ports dialog box.
- From the Available Printer Ports Types list box, select Standard TCP/IP Port, and click the New Port... button.
- The Add Standard TCP/IP Printer Port Wizard will open. Click the Next button.
- In the Printer Name or IP Address space enter the printer IP address, and click the Next button.
- If the computer has confirmed that there is a printer at the IP address you entered, the Exit Add Standard TCP/IP Printer Port Wizard window will open. Click the Done button.
- If you see a window called the Additional Port Information Required, follow the instructions on the screen to search again or select the device type Standard-Canon Network Printing Device with P9100, and click the Next button to exit the Wizard.
- Click the Close button to close the Printer Port dialog box.

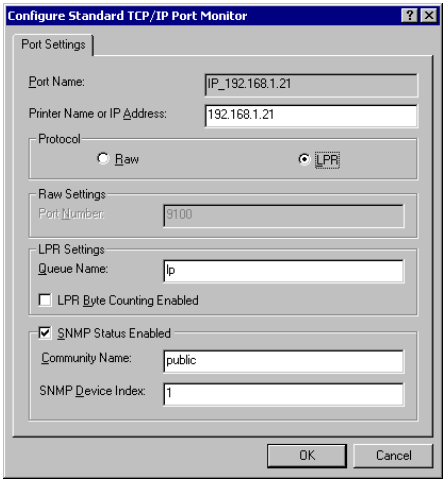



Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.21
Port Name:
IP_192.168.1.21
< Back
Next >
Cancel

4 If you are using LPD, it is necessary to change the port configuration information.

(This is not necessary if you are using RAW.)

- Click the Configure Port... button.
- Under Protocol, select LPR, and under LPR Settings set Queue Name to the printer name, “lp”, and then click the OK button.



5 **Click the OK button to enter the settings.**

The printer destination settings are now complete.

IPP Settings (Windows 95/98)

1 **Install the IPP Client software for Windows 95/98 provided by Microsoft, and restart your computer.**

2 **Install the printer driver.**

If you are using PCL, refer to the *PCL Driver Guide* for installation instructions.

If you are using PostScript, refer to the *Setup Guide* for installation instructions.

When the dialog box for selecting the printer destination appears, select Local printer. (Do not select a Network printer.)

The Port selection can be changed after installation. You can select any port, such as LPT1.

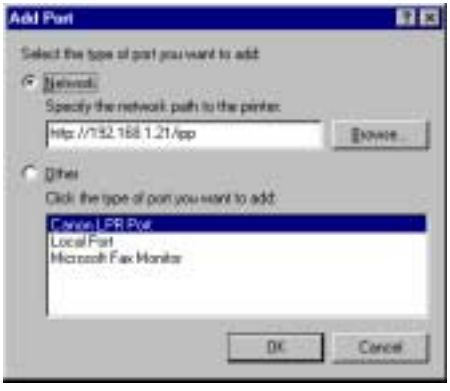
3 **Open the Printer Driver Properties dialog box.**

- From the Start menu, select Setup-Printers.
- Right-click the icon of the printer you want to use for printing.
- From the pop-up menu, select Properties.

4 **Enter the port settings.**

- Click Details tab to open the Details sheet.
- Click the Add Port... button to open the Add Port dialog box.
- Select the Network option button.
- In the Specify the Network Path to the Printer space, enter the following URL, and then click the OK button.

  http://<the machine's IP address>/ipp



5 **Click the OK button to enable the settings.**

The printer destination settings are now complete.

IPP Settings (Windows 2000)

1 **Open the Add Printer Wizard.**

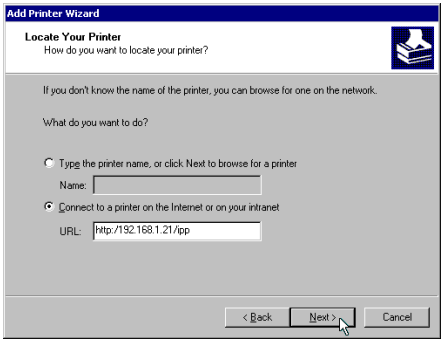
- From the Start menu, select Settings and then Printers.
- Double-click the Add Printer icon.

2 **Enter the URL of your machine.**

- Click the Next button.
- A dialog box opens for selecting the printer connection method. Select Network Printer and click the Next button.
- The Locate Your Printer dialog box opens. Select Connect to a printer on the Internet or on your intranet, enter the following URL in the URL space, and then click the Next button.

http://<the machine's IP address>/ipp

- A dialog box opens for selecting the printer manufacturer and printer name. Click the Have Disk… button and specify the folder on the CD-ROM that contains the printer driver.


Add Printer Wizard
Locate Your Printer
How do you want to locate your printer?
If you don't know the name of the printer, you can browse for one on the network.
What do you want to do?
Type the printer name, or click Next to browse for a printer
Name:
Connect to a printer on the Internet or on your intranet
URL:
http://192.168.1.21/ipp
< Back
Next >
Cancel

3 **Follow the instructions on the screen to complete the installation.**

The printer destination settings are now complete.

Print Server Settings

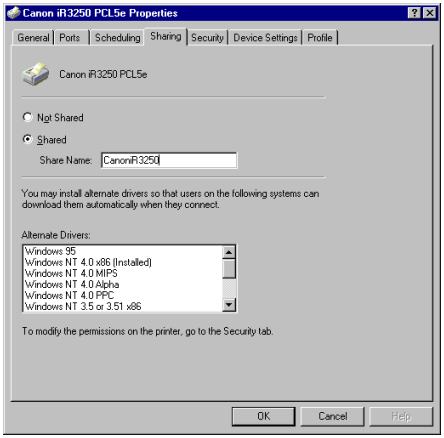
The following procedure enables you to set up Windows NT or Windows 2000 as a print server for more efficient management of network printers. Once the print server is set up, print jobs can be managed by the print server. Also, by setting up an alternate driver for the print server, printer drivers can be installed in each computer via the network.

1 In the Printer Driver Properties dialog box, open the Sharing sheet.

- From the Start menu, select Settings and then select Printers.
- Right-click the icon of the printer you want to use for printing.
- From the pop-up menu, select Sharing.

2 Enter the Sharing settings.

- Select the Shared option button and enter a share name.
- In the Alternate Drivers list box (the Additional Drivers... button if you use Windows 2000), select the printer driver name you want to install.
- Click the OK button. When the alternate driver is installed, a window will open to enter the location of the file containing the printer driver. Insert the CD-ROM supplied with the machine and select the folder containing the printer driver.


Canon iR3250 PCL5e Properties
General Ports Scheduling Sharing Security Device Settings Profile
Canon iR3250 PCL5e
Not Shared
Shared
Share Name: CanoniR3250
You may install alternate drivers so that users on the following systems can download them automatically when they connect.
Alternate Drivers:
Windows 95
Windows NT 4.0 x86 (Installed)
Windows NT 4.0 MIPS
Windows NT 4.0 Alpha
Windows NT 4.0 PPC
Windows NT 3.5 or 3.51 x86
To modify the permissions on the printer, go to the Security tab.
OK
Cancel
Help

IMPORTANT

• When using Windows NT, the use of the alternate driver function requires the installation of the Windows NT Service Pack 5 or later.

The shared printer settings are now complete.

To install the printer driver on another computer, use the Printer Wizard window for selecting the printer destination, select Network printer, and then select the shared printer for the computer selected in the print server.

Setting Up a Computer for Printing (UNIX)

After you have completed the protocol settings, you are ready to set up each of the computers for printing.

NOTE

• The machine supports the LPD print application for printing over TCP/IP networks.

Computer Settings

1 **Log on to a workstation as a superuser.**

2 **Set up the printer host name. Add the following line to the /etc/hosts file.**

<IP address> <Printer host name>

Example:
192.168.1.21 printer_host_name

3 **Set up the spooling system.**

● **Example using Solaris 1.x**
Add the following to the /etc/printcap file settings:
<Print queue name>|<comment>:\

lp=<device special file>:\
:sd=<spool directory>:\
:rm=<printer host name>:

Input example:

print_queue_name|comments:\

lp=/var/spool/print_queue_name/.null:\
:sd=/var/spool/print_queue_name:\
:rm=printer_host_name:

● **Example using Solaris 2.x**
Start the admintool utility.
Select Browse → Printers
Select Edit → Add, Select Access to Printer...
Printer Name, Print Server: enter the desired print queue name and the host name of the printer from step 2.
Click the OK button.

NOTE

• The admintool utility belongs to the operating system. For specific operating instructions, refer to the operating system manual.
• The above procedures are only examples. The setup procedures for your environment will differ.

The host computer settings are now complete.

Test Printing

Print a test file to check that the settings have been completed correctly.

1 Execute the following command.

- **Using Solaris 1.x:**
  lpr -P<print queue name> <print file name>
  Input example: lpr -Pprint_queue_name textfile
- **Using Solaris 2.x:**
  lp -d<print queue name> <print file name>
  Input example: lp -dprint_queue_name textfile

File Sharing Settings

This section explains how to set up a computer on your network as a file sharing server. These settings enable you to send files from your machine to the file sharing server.

IMPORTANT

- *This section describes procedures for entering file sharing settings on the server side only. To send files from the machine to a server on the network, you must enter an address setting from either the control panel or the Remote UI. For instructions on using the control panel, see the* User's Guide. *For instructions on using the Remote UI, see the* Remote UI User's Guide.

Using Windows 95/98

IMPORTANT

- *The machine is not compatible with the NetBIOS scope ID. Do not set up a scope ID on the file sharing server.*

NOTE

- *When using Windows NT or Windows 2000 on a network, it is recommended that these settings be made on a file server.*

1 Right-click the Network Neighborhood icon on the screen, and then select Properties.

- In The following network components are installed column, confirm that both Client for Microsoft Networks and File and printer sharing for Microsoft Networks appear in the list box. For Windows 95, confirm that Microsoft Network Client appears. If not, click the Add... button and install these components.
- Click the File and Print Sharing... button, select "I want to be able to give others access to my files," and click the OK button.

- In the Network dialog box, open the Identification sheet, and confirm the Computer name.
- Click the OK button to close the Network dialog box.

2 Set up File Sharing.

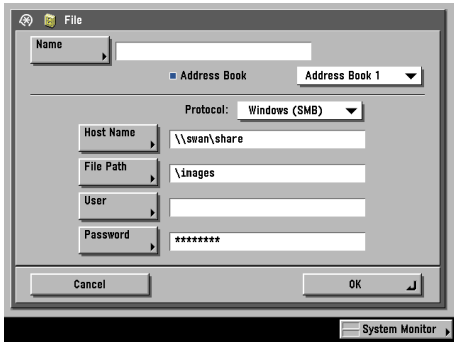
- Select the folder you want to share using Explorer, then right-click and select Sharing... from the pop-up menu.
- On the Sharing sheet, click the Shared As option button, and enter the Share Name.
- For Access Type, select either Full or Depends on Password.
- Enter a password. If Depends on Password is selected, enter the password for Full access.
- Confirm the settings you entered, and click the OK button.

File sharing settings are now complete.

You are now ready to set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide*.

The following items are needed to enter a recipient address:



Sample recipient setting:

- **Server side settings**
  Computer name: swan
  Share Name: share
  Create a folder called Images within Share, and specify Images as the recipient for sending.

- **The machine's recipient settings**
  Protocol: Windows (SMB)
  Host Name: \\swan\share
  File Path: \images (if no file path is specified, enter \)
  User: Do not enter.
  Password: Password entered in step 2.

IMPORTANT

- *The machine's Host Name must be the computer name. It is not possible to use the IP address instead of the computer name. Also, it is not possible to use the host@domain name (example: host_name@organization.company.com) in the setting.*

Using Windows NT 4.0

You can use Windows NT 4.0 in two different ways, using file sharing on a NetBIOS network (Windows File Sharing), or using a Windows NT Server as an FTP server.

IMPORTANT

• It is recommended that Windows NT Server settings be entered by a network manager.

File Sharing Settings on a NetBIOS Network

IMPORTANT

• The machine does not recognise the NetBIOS scope ID. Do not set up the scope ID on the file sharing server.

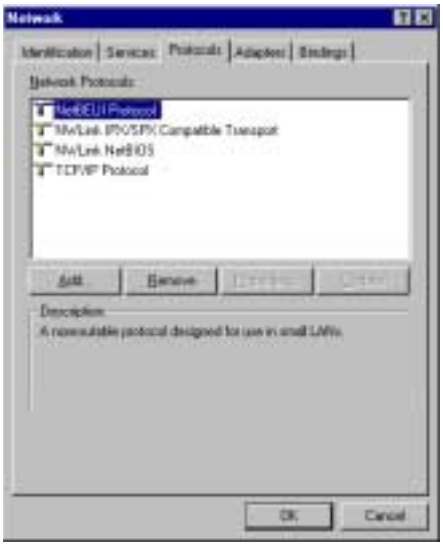
NOTE

• A Windows NT Server can be accessed by a limited number of users or clients. Once this limit is reached, it is not possible to send to a Windows NT Server.

1 Right-click the Network Neighborhood icon on the screen, and select Properties.

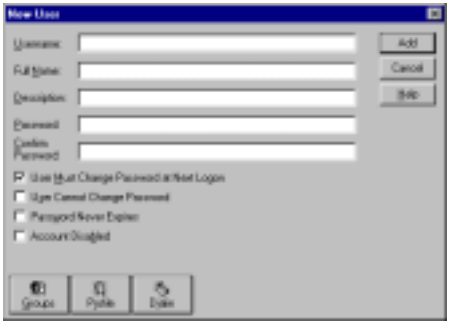
● Click the Services tab, and confirm that NetBIOS Interface and Server appear in the Network Services list box. If not, click the Add... button to install them.

- Click the Protocols tab, and confirm that TCP/IP Protocol appears. If not, click the Add... button and install it.
- Click the Identification tab, and confirm the Computer Name.
- Click the OK button to close the dialog box.



2 Set the users and passwords for access to the shared folder.

- From the Start menu, select Programmes - Administrative Tools - User Manager for Domain and start the User Manager.
- From the Users menu, select New User... and enter the User name and Password, then Confirm Password. Enter additional information as needed.



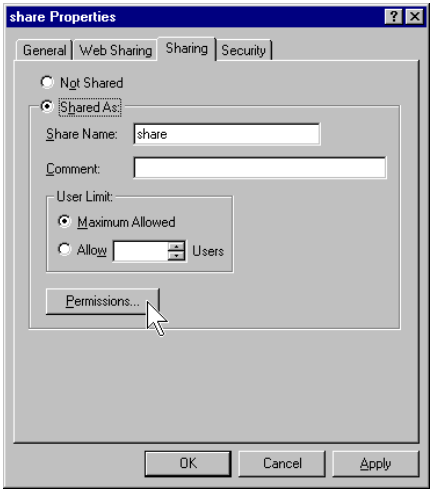
NOTE

- *If the checkbox for the User Must Change Password at Next Login feature is set to On, any new users added must change their password in order to send files from the machine.*

- Confirm the settings and click the Add button.
- Exit the User Manager.

3 Set up File Sharing.

- Select the file you want to share using Explorer, then right-click and click the Sharing tab.
- On the Sharing sheet, click the Shared As option button and enter the Share Name.
- Click the Permissions... button to open the Access Through Share Permissions dialog box, and enter the users you want to have access to the shared folder. Set the Type of Access to either Change or Full Control.
- When using NTFS format, click the Security tab to open the Security sheet. Click the Permission... button to open the Directory Permission dialog box. Select or add the users or groups you want to have access to the shared folder, and in the Type of Access column, set each to Add or Read access. Also set up Add or Read access to each folder in the file.
- Confirm the settings and click the OK button.

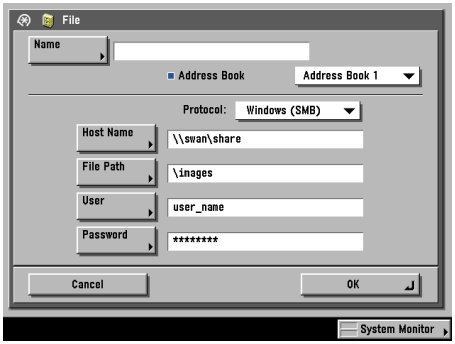


The file sharing settings are now complete.

You are now ready to set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel, or from the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide.*

The following items are needed to enter a recipient address:



Sample recipient setting:

● **Server side settings**

Computer Name: swan
Share Name: share
Create a folder called Images within Share, and specify Images as the recipient for sending.

● **The machine's Recipient Settings**

Protocol: Windows (SMB)
Host Name: \\swan\share
File Path: \images (if no file path is specified, enter \)
User: User name entered in step 2.
Password: Password of user name entered in step 2.

IMPORTANT

- *For the machine host name, use the computer name confirmed in step 1 to make settings. Do not use the host name from Windows NT.*
- *It is not possible to substitute the IP address for the computer name when entering the machine's host name, It is also not possible to substitute the host@domain name (example: host_name@organization.company.com). Always use the computer name as the host name when making settings.*
- *When sending files to Windows NT, enter the user name in the address using only the user name itself. Do not enter the format domainname\username.*

Settings Using an FTP Server

IMPORTANT

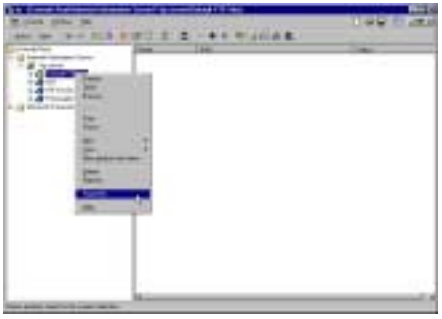
- *The use of Windows NT Server as an FTP server requires the installation of Microsoft Internet Information Server 4.0 (IIS 4.0). If IIS 4.0 is not installed on the computer you are using, you will need to install IIS 4.0 before entering these settings. For installation procedures, see the manuals provided with your operating system.*
- *Verification of users for access to FTP servers is done by referencing the local account database of the Windows NT 4.0 Server that is used as the FTP server. Therefore, it is not possible to use the account of a domain user registered in a Windows NT 4.0 Server to send files directly from the machine to member servers, Windows NT 4.0 Workstation, Windows 2000 Professional, or computers in other domains.*

1 **Start IIS 4.0.**

2 **Enter the FTP site settings.**

This section describes procedures for using the default home directory under the Default FTP Site. To use other settings, enter the FTP site and home directory by referring to a source such as the IIS 4.0 Help file.

- Right-click on the Default FTP Site icon and select Properties from the pop-up menu to open the Default FTP Site Properties dialog box.
- Open the Security Account sheet, and turn off the Allow Anonymous Connections option.
- Open the Home Directory sheet and check both the Read and Write options.
- Click the OK button to close the Specified FTP Site Properties dialog box.

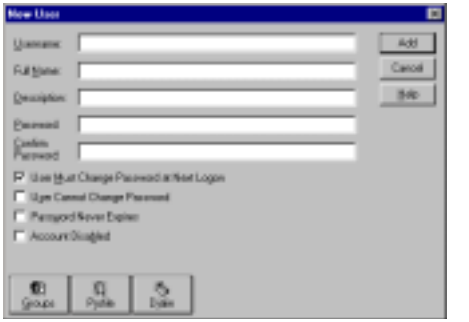


3 Confirm the Host name and Domain.

- Right-click the Network Neighborhood icon on the screen and select Properties.
- In the Network dialog box, click the Protocols tab.
- In the Network Protocol list box, double-click the TCP/IP Protocol.
- Click the DNS tab to open the DNS sheet, and confirm the Host Name and Domain settings.
- Click the Cancel button to close the Network dialog box.

4 Set up the users and passwords for access to the FTP server.

- From the Start menu, select Programs-Administrative Tools - User Manager for Domain.
- On the Users menu select New User... and enter the users and passwords. Enter the User name, Password, and Confirm Password.
  Enter other items as required.
- Confirm the settings you entered, and click the Add... button.
- Exit the User Manager.



NOTE

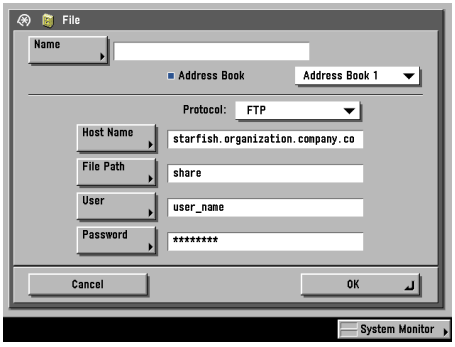
• If the checkbox for the User Must Change Password at Next Login feature is set to On, any new users added must change their password in order to send files from the machine.

The FTP server and user settings are now complete.

Next, set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide*.

The following items are needed to enter a recipient address:



Sample recipient setting:

● **Server side settings (contents set using the above procedure)**

Host name: starfish
Domain: organization.company.com
Create a directory named "share" in the specified FTP server's home directory "\Inetpub\ftproot" and set "share" as the file destination.

● **The machine's recipient settings:**

Protocol: FTP
Host Name: starfish.organization.company.com
File Path: share
User: User name entered in step 4
Password: Password of the user name entered in step 4

IMPORTANT

- *To use the host name confirmed in step 3 of the above example as the host name in the machine's address, it is necessary to use a DNS server. (This applies even when the machine and the FTP server are in the same subnet.)*
- *If no DNS server is available, the host name setting should be made using the IP address of the FTP server. IP address segments of less than three digits should not be filled with leading zeroes (do not enter as 001, 023, etc.).*

Using Windows 2000

You can use Windows 2000 in two different ways, using file sharing on a NetBIOS network (Windows file sharing), or using a Windows 2000 Server as an FTP server.

IMPORTANT

- *The machine is not compatible with the Windows 2000 Active Directory.*
- *The machine cannot send files to shared folders linked through the Windows 2000 Distributed File System (DFS). Files should be sent directly to the file server containing the linked shared folder.*
- *It is recommended that Windows 2000 settings be made by the Network manager.*

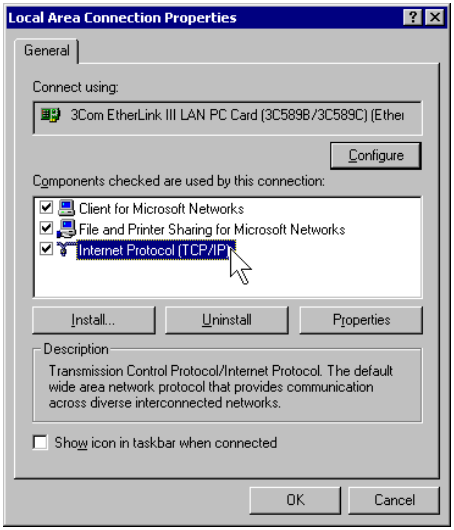
File Sharing Settings on a NetBIOS Network

NOTE

- *The number of users or clients that can access a Windows 2000 Server is limited. After this number of users or clients is reached, it is not possible to send to a Windows 2000 Server.*

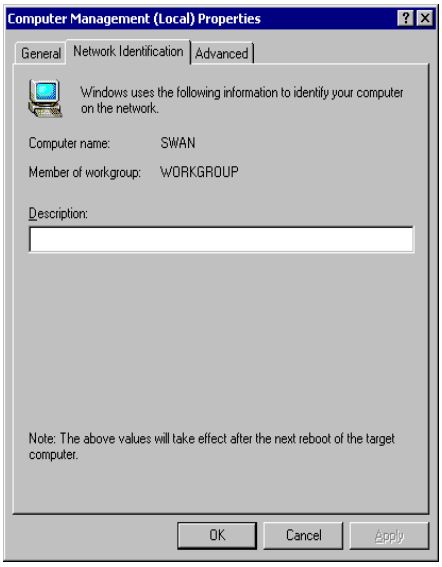
1 Confirm the Windows 2000 network configuration elements.

- Right-click the My Network Places icon on the screen and select Properties. The Network and Dial-up Connections window opens.
- Right-click on the Local Area Connection icon and select Properties. The Local Area Connection Properties dialog box opens.
- Confirm that the Client for Microsoft Networks, File and Printer Sharing for Microsoft Networks, and Internet Protocol (TCP/IP) checkboxes are all On. If any of these functions are Off, turn them On.
- Double-click on Internet Protocol (TCP/IP) to open the Internet Protocol (TCP/IP) Properties dialog box. On the General sheet, click the Advanced… button.
- Click the WINS tab and on the WINS sheet confirm that the Enable NetBIOS over TCP/IP option button is On. If this function is Off, turn it On.
- Click the OK button repeatedly to close the dialog boxes.
- If necessary restart the computer.



2 Confirm the Computer Name.

- Right-click on the My Computer icon and select Manage. The Computer Management window opens.
- Right-click on the Computer Management (Local) icon and select Properties. The Computer Management (Local) Properties dialog box opens.
- Click on the Network Identification tab to open the Network Identification sheet, then confirm the Computer name setting.
- Click the Cancel button to close the dialog box, then close the Computer Management window.



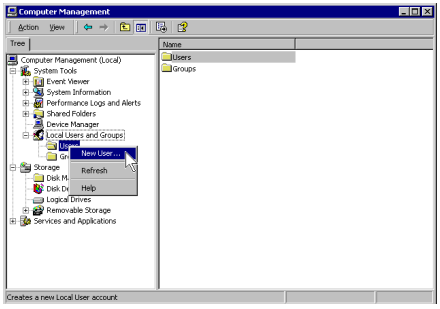
3 Set up the users and passwords for access to the shared folder.

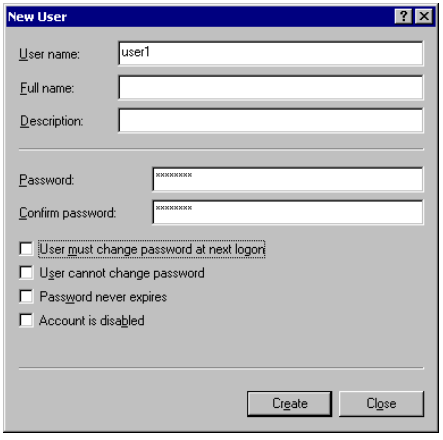
- Right-click on the My Computer icon and select Manage. The Computer Management window opens.
- Under System Tools click on Local Users and Groups, then right-click on the Users folder. In the pop-up menu select New User….
- In the New User dialog box, enter the User name and Password, and Confirm the password.

NOTE

• If the checkbox for the User must change password at next login feature is set to On, any new users added must change their passwords in order to send files from the machine.

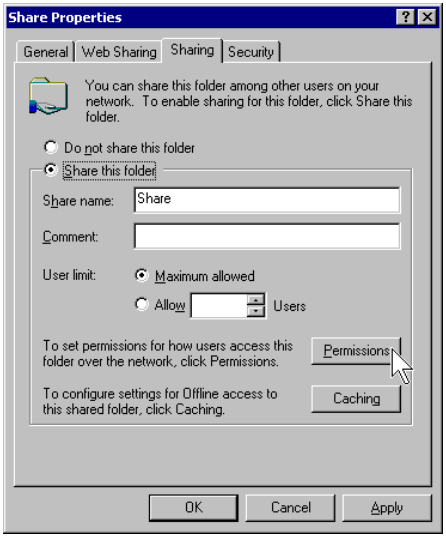
- Confirm the settings, then click the Create button.
- Close the Computer Management window.

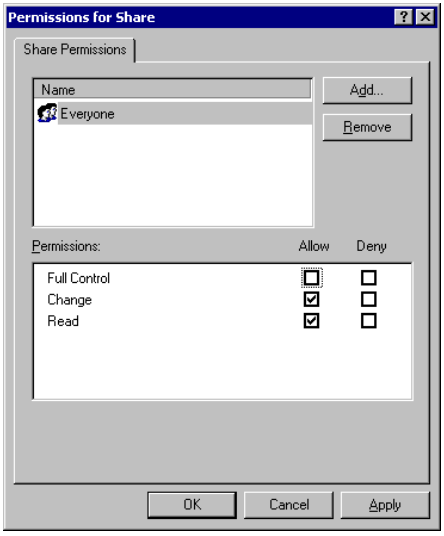




4 Set up the sharing folder.

- Use Explorer, etc. to select the folder to be shared and right-click, then select Sharing…. On the Sharing sheet, select the Share this folder option button, and enter the Share name.
- Click the Permissions button and set up the users and groups you want to have access to the shared folder. Select or add the users or groups you want to have access to the shared folder, then in the Permissions column, check both the Change and Read checkboxes, and click the OK button.
- If you are using NTFS format, go to the Properties dialog box of the shared folder and click the Security tab to open the Security sheet. Select or add the users or groups you want to have access to the shared folder, then in the Permissions column, check both the Write and Read & Execute, or higher access authority. For files in the folder, check both the Write and Read, or higher access authority.
- Confirm the settings and click the OK button.
- Click the OK button and close the Properties dialog box of the shared folder.





Server file sharing settings are now complete.

Next, set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide*.

For sample settings, see the example of Windows NT address settings. (See p. 2-31.)

IMPORTANT

- *In the machine's address, the Host Name must be the computer name. It is not possible to use the IP address or full computer name instead of the computer name. Be sure that the Host Name setting uses the computer name.*
- *When sending files to Windows 2000, enter the User address as the user name only. Do not enter in the format domainname\username.*

Settings Using an FTP Server

IMPORTANT

- *The use of Windows 2000 Server as an FTP server requires the installation of Microsoft Internet Information Server 5.0 (IIS 5.0). If IIS is not installed on the computer you are using, you will need to install IIS before entering these settings. For installation procedures, see the manuals provided with your operating system.*
- *Verification of users for access to FTP servers is done by referencing the local account database of the Windows 2000 server that is used as the FTP server. Therefore, it is not possible to use the account of a domain user registered in a Windows 2000 Server to send files directly from the machine to member servers, Windows NT 4.0 Workstation, Windows 2000 Professional, or computers in other domains.*

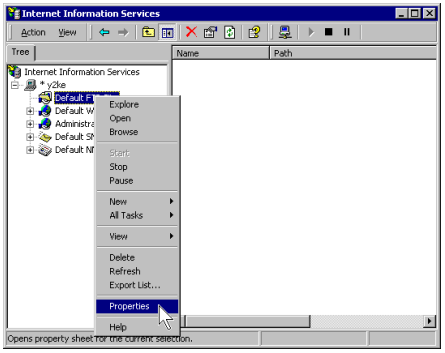
1 Start IIS 5.0.

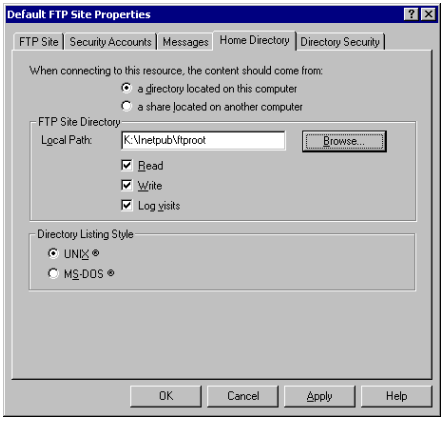
● From the Start menu, select Programs – Administrative Tools – Internet Services Manager.

2 Enter the FTP site settings.

This section describes procedures for using the default home directory under the Default FTP Site. To use other settings, enter the FTP site and home directory by referring to a source such as the IIS 5.0 Help file.

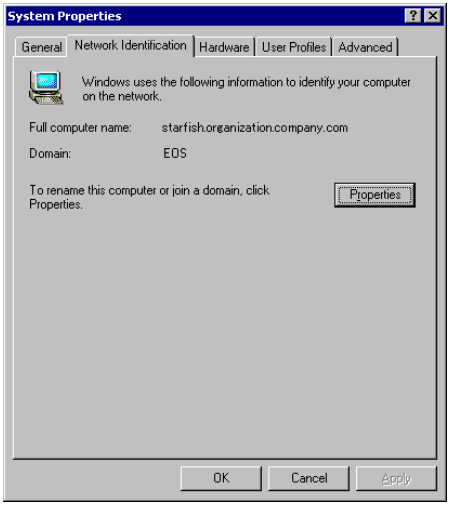
- Right-click the Default FTP Site icon, and select Properties from the pop-up menu to open the Default FTP Site Properties dialog box.
- Open the Security Account sheet, and turn off the Allow Anonymous Connections option.
- Open the Home Directory sheet and check both the Read and Write options.
- Click the OK button to close the Specified FTP Site Properties dialog box.





3 Confirm the Full computer name.

- Right-click the My Computer icon on the screen and select Properties.
- Click the Network Identification tab to open the Network Identification sheet and confirm the Full computer name.
- Click the Cancel button to close the System Properties dialog box.



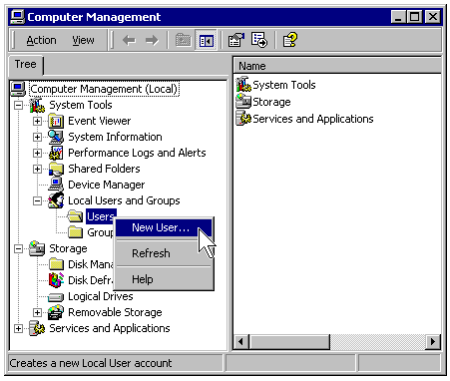
4 Set up the users and passwords for access to the FTP server.

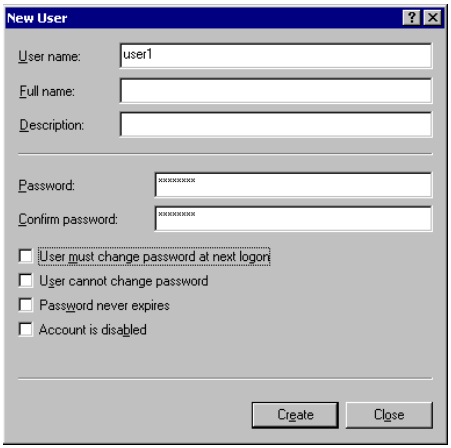
- Right-click on My Computer and select Manage. The Computer Management window opens.
- Under System Tools click on Local Users and Groups, then right-click on the Users folder. In the pop-up menu select New User….
- In the New User dialog box, enter the User name and Password, and Confirm password.

NOTE

• If the checkbox for the User must change password at next login feature is set to On, any new users added must change their passwords in order to send files from the machine.

- Confirm the settings, then click the Create button.
- Close the Computer Management window.



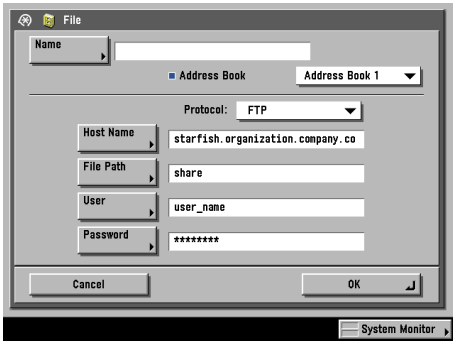


FTP server and user settings are now complete.

Next, set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide*.

The following items are needed to enter a recipient address:



Sample recipient setting:

- **Server side settings**

  Full Computer Name: starfish.organization.company.com
  Create a directory named “share” in the specified FTP server's home directory “\Inetpub\ftproot” and set “share” as the file destination.

- **The machine’s recipient settings**

  Protocol: FTP
  Host Name: starfish.organization.company.com
  File Path: share
  User: User name entered in step 4
  Password: Password of the user name entered in step 4

IMPORTANT

- *To use the Full Computer Name confirmed in step 3 of the above example as the host name in the machine’s address, it is necessary to use a DNS server. (This applies even when the machine and the FTP server are in the same subnet.)*
- *If no DNS server is available, the host name setting should be made using the IP address of the FTP server. IP address segments of less than three digits should not be filled with leading zeroes (do not enter as 001, 023, etc.).*

Using UNIX

IMPORTANT

- *UNIX users must have Sun Solaris 2.6 or later installed in order to use the machine as an FTP server.*

1 **Log on to a workstation as a superuser.**

2 **Set up the users who send documents, and their passwords.**

3 **Create a shared directory to be used for recipient addresses, and enable read access and write access by the users who will be sending files.**

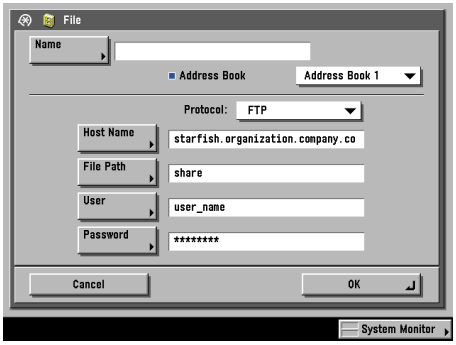
IMPORTANT

- *In some environments, detailed settings may be required in order to use FTP. For details, consult with your network manager.*

Next, set up the recipients for files sent to the FTP server from the machine.

Recipient address settings for the machine can be entered from the control panel or the Remote UI. Use whichever is more convenient. (By using the Remote UI you can set recipient addresses from your personal computer.) For instructions on using the control panel, see the *User's Guide*. For instructions on using the Remote UI, see the *Remote UI User's Guide*.

The following items are needed to enter a recipient address:



Sample recipient setting:

- Server side settings
  Host Name: starfish
  Domain: organization.company.com
  The user's home directory is /home/hsato, and /home/hsato/share is the file destination.
- The machine's recipient settings
  Protocol: FTP
  Host Name: starfish.organization.company.com
  User: User name entered in step 2
  Password: Password entered in step 2
  File Path: enter one of the following:
  share (when using relative path)
  /home/hsato/share (when using absolute path)

NOTE

- *To use the host name of the above example as the host name in the machine's address, it is necessary to use a DNS server. (This applies even when the machine and the FTP server are in the same subnet.)*
- *If no DNS server is available, the host name setting should be made using the IP address of the FTP server. IP address segments of less than three digits should not be filled with leading zeroes (do not enter as 001, 023, etc.).*

Using a NetWare Network (Windows)

CHAPTER 3

This chapter describes settings and procedures for using the machine with a NetWare network.

NetWare Network Setup Operating Procedures 3-2
- Printing Settings 3-2
- File Sharing Settings 3-3

NetWare Print Service Settings 3-4
- Types of Print Service 3-4
- Setup Using NetWare Administrator 3-5
- Setup Using PCONSOLE 3-6

Protocol Settings 3-9
- Settings from the Control Panel 3-9

Setting Up a Computer for Printing 3-12
- Connecting to a NetWare Network 3-12
- Installing Printer Drivers 3-12
- Setting the Printer Destination 3-12

File Sharing Settings 3-13

NetWare Network Setup Operating Procedures

The following operating procedures are necessary to use the machine on a NetWare network. See the pages listed for each item when entering the necessary settings.

Printing Settings

The following settings are necessary to print from the machine.

IMPORTANT

- *It is recommended that a network manger enters the NetWare print service and protocol settings.*

1 NetWare Print Service Settings

NetWare print service settings can be made from the NetWare Administrator or PCONSOLE.

(See “NetWare Print Service Settings,” on p. 3-4.)

2 Protocol Settings

Protocol settings can be entered from the control panel or from NetSpot. Use whichever is more convenient.

(See “Settings from the Control Panel,” on p. 3-9.)

NOTE

- *For instructions on entering settings with NetSpot, See “Using the Network and Printer Settings with NetSpot,” in Chapter 5.*
- *If you are able to use the TCP/IP protocol, you can enter settings using the Remote UI. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the* Remote UI User’s Guide*.*

3 Computer Settings

Enter settings for the computer you are printing from. (See “Setting Up a Computer for Printing,” on p. 3-12.)

File Sharing Settings

Enter settings for sending documents from the machine to servers over a network. The following procedures are necessary to set up files on the server for file sharing.

IMPORTANT

- *It is recommended that a network manager enters the file sharing settings.*

1 Computer Settings (File Sharing Settings)

(See “File Sharing Settings,” on p. 3-13.)

2 The machine Settings (File Sending Settings)

Enter the recipient settings used to send files from the machine’s control panel. For setting procedures, see the *User’s Guide*.

NOTE

- *If you are able to use the TCP/IP protocol, you can enter settings from the Remote UI. (The Remote UI enables you to enter a variety of settings for the machine from a computer using a web browser). For instructions on using the Remote UI, see the* Remote UI User’s Guide*.*

NetWare Print Service Settings

In order to print using a NetWare network, it is necessary to enter print service settings including print server and queue settings.

IMPORTANT

- *The following procedures illustrate a sample NetWare setup procedure. Depending on your environment, the actual setup procedure may differ.*

Types of Print Service

Before entering print service settings, refer to the following descriptions to determine the type of print service you are using.

Novell Directory Service (NDS) and Bindery Mode

NetWare 3.2 uses a network database called Bindery, and NetWare 4.1 or later and NetWare 5 use the Novell Directory Service (NDS). The machine network supports both NDS and Bindery mode. Determine the appropriate mode according to the network environment you are using. (If you are using NetWare 3.2, only the Bindery mode is available.)

Queue Server Mode and Remote Printer Mode

The machine supports printers in either of two operation modes, the queue server mode or remote printer mode.

Queue Server Mode

When the machine is used in the queue server mode, all printer server functions are provided by the machine itself, and no other print server hardware or software is required. In NDS queue server mode (NDS PServer), the NDS print server is used for printing. In Bindery queue server mode (Bindery PServer), the Bindery mode print server is used. In queue server mode, a separate NetWare user operating licence is required for each machine.

Remote Printer Mode

When the machine is used in the remote printer mode, it is controlled by the NetWare print server. Therefore, the machine uses a print server in addition to the network. The machine prints using the NDS print server in NDS remote printer mode (NPrinter), and the Bindery print server in Bindery remote printer mode (RPrinter).

IMPORTANT

- *Normally with NetWare 4.1 or later, the NDS printer service should be used, and with NetWare 3.2, the Bindery print service should be used. This manual describes procedures for these two combinations only.*
- *With NetWare 5, the NDPS can be used. When using the NDPS, the gateway should be the Novell printer gateway provided with NetWare. This manual does not describe NDPS settings. Refer to the NetWare manual.*

Setup Using NetWare Administrator

Use NetWare Administrator when using NDS queue server mode or remote printer mode (NetWare 4.1 or later).

1 **Log on to NetWare with Administrator or equivalent access, and start NetWare Administrator.**

2 **Execute Quick Setup.**

Select the container object for the printer object you want to create, and then go to the Tools menu and select Print Services Quick Setup.

3 **Enter the Print Server, Printer, and Queue settings.**

- Enter the Print Server name.
  To use an existing Print Server, click on the button to the right of the Printer Server name text box and select a Printer Server from the drop-down list box.
- In the Printer column, enter the printer name under Name.
- Under Type select the printer connection method.
  If you are using the queue server mode, select Other/Unknown.
  If you are using the remote printer mode, select Parallel, then click the Communication button to open the Parallel Communication dialog box. Then set the Port to LPT1, and the Connection type to Manual load. Under interrupts, enter the appropriate setting for your environment. Click the OK button to close the Parallel Communication window.
- In the Print Queue column, enter the queue name under Name. Under Volume, enter the volume in which the queue is placed. Click on the button to the right of the Volume name text box and select a Volume from the drop-down list box.
- Click the Create button and exit NetWare Administrator.

NOTE

• Make sure to remember the name of the print server. You need it to enter the machine's protocol settings.

4 **If you are using the remote printer mode, use the following procedure to restart the print server.**

(In the queue server mode this is not required.)

- If you are using the NetWare file server as a print server, enter Load PSERVER.NLM in the file server and press the Enter key.

NetWare print service settings are now complete. Continue to the next section and specify the protocol settings.

Setup Using PCONSOLE

Use PCONSOLE when using the Bindery mode with either the queue server mode or remote printer mode (NetWare 3.2).

1 **Log on to NetWare as the Supervisor, and start PCONSOLE.**

2 **If you have not already set up a print server, use the following procedure to set up the print server.**

- From the Available Options menu, select Print Server Information, then press the Enter key.
- Press the Insert key.
- Enter the name of the print server you are setting up, and press the Enter key.
- Press the ESC key to return to the Available Options menu.

NOTE

• Make sure to remember the name of the print server. You need it to enter the machine's protocol settings.

3 **Set up a Queue using the following procedure, and assign it to the print server.**

- From the Available Options menu, select Print Queue Information, then press the Enter key.
- Press the Insert key.
- Enter the name of the queue you are setting up, then press the Enter key.
- Select the name of the queue you entered, then press the Enter key.
- Select Queue Servers, then press the Enter key.
- Press the Insert key.
- Select the print server you set up in Step 2, then press the Enter key.
- Press the ESC key until you return to the Available Options menu.

4 Assign the printer to the print server.

- From the Available Option menu, select Print Server Information then press the Enter key.
- Select the print server you set up in Step 2, then press the Enter key.
- Select Print Server Configuration, then press the Enter key.
- Select Printer Configuration, then press the Enter key.
- From the Configured Printers list box select the number of the printer you want, then press the Enter key.

5 Set up the printer name, type, etc.

- In the Name area, enter the name you want to use for the printer, and then press the Enter key.
- Set up the Type. If you are using queue server mode, select Defined elsewhere, or if you are using remote printer mode, select Remote Parallel and set the Port to LPT 1.
- Enter the remaining items, then press the ESC key.
- In the confirmation box that opens, select Yes, then press the Enter key.
- Press the ESC key to return to the Print Server Configuration Menu.

6 Assign the printer to a queue.

- Select Queues Serviced by Printer and press the Enter key.
- Select the name of the printer you set up in Step 5, then press the Enter key.
- Press the Insert key.
- Select the queue you set up in Step 3, then press the Enter key.

NOTE

• Make sure to remember the printer number. You need it to enter the machine's protocol settings.

7 Press the ESC key until you return to the Exit PConsole window, then select Yes to quit PCONSOLE.

8 If you are using remote printer mode, use the following procedure to restart the print server.

(This is not required if you are using queue server mode.)

- If you are using a NetWare file server as a print server, enter "LOAD PSERVER.NLM <print server name>" from the file server, and then press the Enter key.
- If you are using a dedicated print server, enter PSERVER.EXE and the name of the print server from the computer, and then press the Enter key.

NetWare print service settings are now complete. Continue to the next section to enter the protocol settings.

Protocol Settings

This section describes how to enter Ethernet driver settings, and the machine's NetWare protocol settings.

These settings are entered from the machine's control panel.

NOTE

- *If you are able to use the TCP/IP protocol, you can enter settings using the Remote UI. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the* Remote UI User's Guide*.*

Settings from the Control Panel

IMPORTANT

- *Settings made from the control panel become enabled when the machine is restarted after the procedure.*
- *For details about entering characters using the touch panel display, see the* User's Guide*.*

Setting Up the Ethernet Driver

For Ethernet driver settings, see "Setting Up the Ethernet Driver," on p. 2-5.

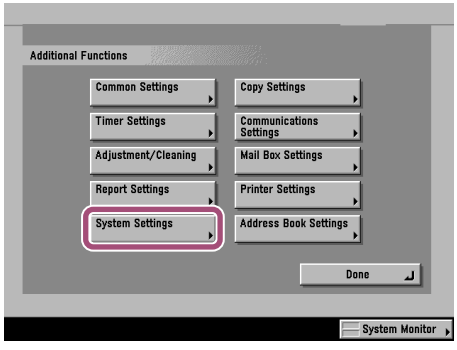
Setting Up NetWare

1 **Press the Additional Functions key.**

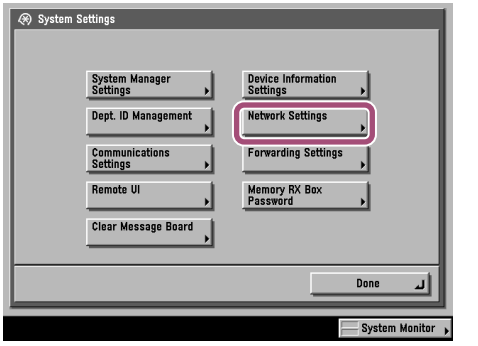
2 **Press the [System Settings] key.**

IMPORTANT

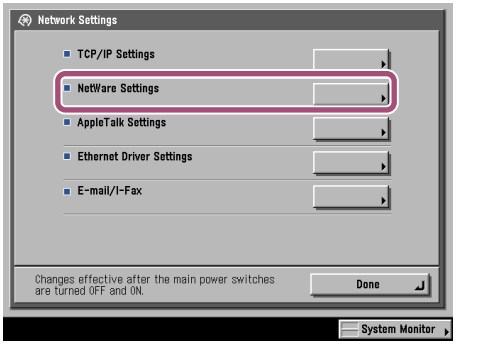
- *If the message "Enter the System Manager ID and Password using the numeric keys," appears in the touch panel display, enter the System Manager ID and password. For instructions on entering the System Manager ID and password, see the* User's Guide*.*



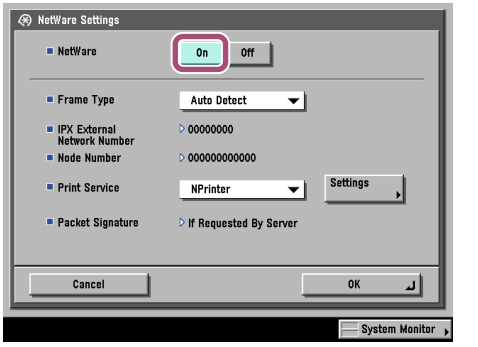
3 **Press the [Network Settings] key.**



4 **Press the [NetWare Settings] key.**



5 **Select NetWare [On].**



6 **Select the Frame Type from the drop-down list box.**

Select the Frame Type from the drop-down list box. Select [Auto Detect] to determine the frame type automatically.

7 **Select the Print Service from the drop-down list box.**

Select the print service setting used in "*NetWare Print Service Settings*." (See p. 3-4).

NOTE

- *The following print services are available:*
  - *Bindery PServer: Used in the queue server mode (Bindery mode print service).*
  - *RPrinter: Used in the remote printer mode (Bindery mode print service).*
  - *NDS PServer: Used in the queue server mode (NDS print service).*
  - *NPrinter: Used in the remote printer mode (NDS print service).*

8 **Press the [Settings] key on the right side to set the print service details. Enter the same settings entered in "*NetWare Print Service Settings*." (See p. 3-4.)**

Settings differ depending on the print service. For print service settings, See "Control Panel Menu List," on p. 6-7.
To use a NDS PServer, enter the Tree name and Context for the print server in the Tree and Context fields as follows:

If the Tree name is A1 and the Context is TOPMAX_SYS
Tree: A1
Context: o=TOPMAX_SYS

9 **Confirm the settings you made and press the [OK] key.**

10 **Press the [Done] key.**

Repeat until the Additional Functions screen closes.

11 **Restart the machine.**

Turn the printer unit power switch, the scanner unit power switch, and the control panel power switch to OFF; and then turn the power to ON after waiting at least 3 seconds.

The protocol settings are now complete.

Setting Up a Computer for Printing

After you have finished making the NetWare print service and protocol settings, you can enter settings for each of the computers to be used.

Connecting to a NetWare Network

Install NetWare client software on all computers that will perform printing, so that they are able to use the NetWare network. For details, see your NetWare manuals and operating system manuals.

Installing Printer Drivers

Printing from a computer requires the installation of a printer driver. If you are using PCL, refer to the *PCL Driver Guide* for installation instructions. If you are using PostScript, refer to the *Setup Guide* for installation instructions. In the installation procedure, select the network printer as the printer destination, and select the print queue that you created in "*NetWare Print Service Settings*," on p. 3-4.

Setting the Printer Destination

(If you set up the printer destination when you installed the printer driver, this step is not necessary.)

On the Start menu, select Setting, Printer, then right-click the icon of the printer you will use for printing and select Properties from the pop-up menu.
Click Details tab or Port tab to display the Details sheet or the Port sheet, and set the printer destination port to the print queue you created in "*NetWare Print Service Settings*," on p. 3-4. Click the OK button to enable the settings.

File Sharing Settings

This section describes how to set up a computer on your network as a file sharing server.

These settings enable you to send files from your machine to the file sharing server.

IMPORTANT

- *This section describes procedures for entering file sharing settings on the server side only. To send files from the machine to a server on the network, you must enter an address setting from either the control panel or the Remote UI. For instructions on using the control panel, see the* User's Guide*. For instructions on using the Remote UI, see the* Remote UI User's Guide*.*

1 **Log on to NetWare as Administrator or as a user of equivalent authority.**

2 **Set up the users and passwords for sending files from the machine.**

3 **Create a directory to be used for recipient addresses, and enable read access and write access by the users who will be sending files.**

IMPORTANT

- *In some environments, additional detailed settings such as Authority settings may be required. For details, consult the network manager of the environment you are using.*

The settings for sharing computer files are now complete.

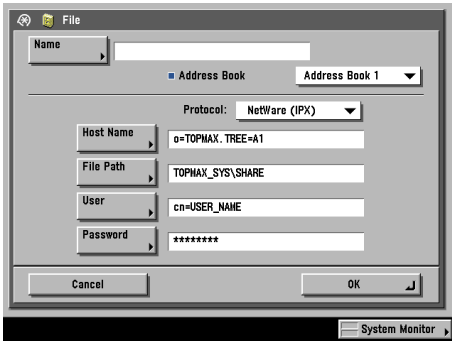
Next, set up the recipients for files sent from the machine.

Recipient address settings for the machine can be entered from the control panel. For instructions on making address settings, see the *User's Guide*.

NOTE

- *If you are able to use the TCP/IP protocol, you can enter settings from the Remote UI. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the* Remote UI User's Guide*.*

The following items are needed to enter a recipient address.



Sample recipient settings:

●NDS Mode Example 1

Server side settings:
Context name: TOPMAX
Tree name: A1
Then set the \SHARE file in the context TOPMAX_SYS as the recipient.

The machine's address settings:
Protocol: NetWare (IPX)
Host Name: o=TOPMAX.TREE=A1
File Path: TOPMAX_SYS\SHARE
User: cn=USER NAME (User name entered in step 2)
Password: (Password for the above user)

●NDS Mode Example 2

Server side settings:
Tree name: A1
User: cn=USER_NAME ou=CSG o=TOPMAX
Volume object: cn=LUNA_CSG ou=CSG o=TOPMAX
Directory path: \WORK\USER_NAME

The machine's address settings:
Protocol: NetWare (IPX)
Host Name: CSG.TOPMAX.TREE=A1
User: cn=USER NAME (User name entered in step 2)
Password: (Password for the above user)
For the 'File Path' enter one of the following:
LUNA_CSG\\WORK\USER_NAME
LUNA_CSG.CSG.\\WORK\USER_NAME
LUNA_CSG.CSG.TOPMAX.\\WORK\USER_NAME

IMPORTANT

- *In NDS mode, for the Host Name, enter the context name registered by the user. If the user is registered under a department container object such as ou=sales, the entry is as follows.*
  - Host name: ou=sales. o=TOPMAX. TREE=A1.
  If a country name is used, the entry is as follows.
  - Host name: o=TOPMAX. c=jp. TREE=A1
- *In the Host Name entry, you may omit the [xx=] portion, but the '. TREE=' portion with the tree name may not be omitted.*
- *In NDS mode, the User name may not have the 'cn=' portion omitted.*
- *The file path is specified as a relative path from the user context. If an extension is used, it must be preceded by a period.*

●In Bindery Mode Example:

Server side settings (entered using the above procedure)
File Server Name: TOPMAX_SERVER
Set \CSG in the SYS volume as the recipient.

The machine address settings
Protocol: NetWare (IPX)
Host Name: TOPMAX_SERVER
File Path: SYS\CFG
User: (User name entered in step 2)
Password: (Password entered in step 2)

Using an AppleTalk Network

CHAPTER 4

This chapter describes settings and procedures for using the machine on an AppleTalk network.

AppleTalk Network Setup Operating Procedures 4-2
Printing Setup 4-2
Macintosh Network Settings 4-3
Protocol Settings 4-4
Settings from the Control Panel 4-4

AppleTalk Network Setup Operating Procedures

Printing Setup

The following operating procedures are necessary to print on the machine using an AppleTalk network. Refer to the page listed for each item and enter the necessary settings.

IMPORTANT

- *It is recommended that a network manager enters the protocol settings.*

1 Macintosh Network Settings

Set up the Macintosh for connection to an Ethernet network.
See “Macintosh Network Settings,” on p. 4-3.

2 Protocol Settings

Protocol settings can be entered from the machine’s control panel or from NetSpot. Use whichever is more convenient.

See “Settings from the Control Panel,” on p. 4-4

NOTE

- *If you are able to use the TCP/IP protocol, and have a Windows computer connected to a TCP/IP network, you can enter settings from the Remote UI. The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser. For instructions on using the Remote UI, see the* Remote UI User’s Guide*.*

3 Printer Driver Installation

To print, it is necessary to have installed a printer driver for your printer.

Refer to the Setup Guide for instructions on installing the printer driver. For instructions on using the printer driver, refer to the online help.

4 Macintosh Print Settings

For printer destination settings, refer to the online help for the printer driver or your Macintosh.

Macintosh Network Settings

Verify the Macintosh network settings.

1 Check that AppleTalk is active.

- Select the Chooser from the Apple menu.
- Check that the AppleTalk setting is Active. If it is Inactive, click Active option.

2 Check that the AppleTalk connection method is EtherTalk or Ethernet.

- From the Apple menu, open the control panel menu and select Network or AppleTalk.
- Set the selection to EtherTalk or Ethernet.
- Close the Network or AppleTalk control panel to save the selection.

NOTE

• Some Mac operating systems enable you to use either Network or AppleTalk.
• In an environment connecting to Ethernet through LocalTalk, select either LocalTalk or Printer Port.

The Macintosh network settings are now complete. Continue to the next section to enter the protocol settings.

Protocol Settings

This section describes procedures for setting up the machine's Ethernet driver and AppleTalk protocol. These settings are entered from the machine's control panel.

NOTE

- *If you are able to use the TCP/IP protocol, and have a Windows computer connected to a TCP/IP network, you can enter settings from the Remote UI. (The Remote UI enables you to enter a variety of settings for the machine from a computer with a web browser.) For instructions on using the Remote UI, see the* Remote UI User's Guide*.*

Settings from the Control Panel

IMPORTANT

- *Settings from the control panel become effective when the machine is restarted (using the power switches).*
- *For details about entering characters using the touch panel display, see the* User's Guide*.*

Setting Up the Ethernet Driver

For Ethernet driver settings, see "Setting Up the Ethernet Driver," on p. 2-5.

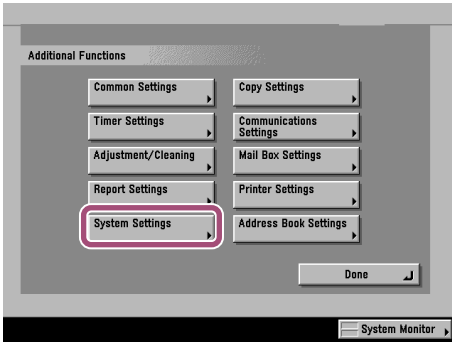
Setting Up AppleTalk

1 **Press the Additional Functions key.**

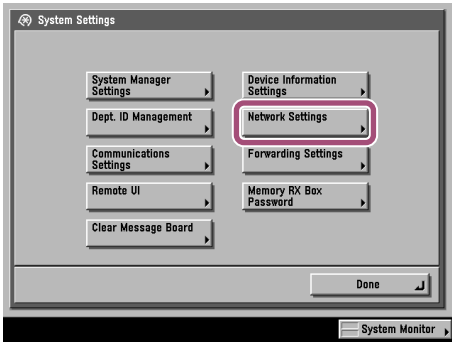
2 **Press the [System Settings] key.**

IMPORTANT

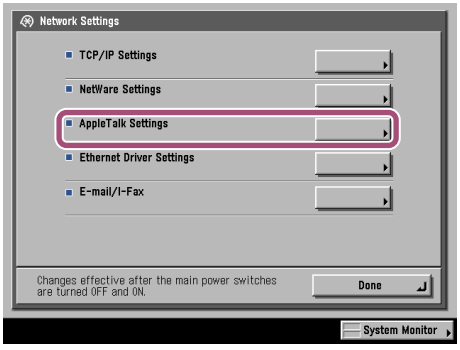
- *If the message "Enter System Manager ID and Password using the numeric keys," appears in the touch panel display, enter the System Manager ID and password. For instructions on entering the System Manager ID and password, see the* User's Guide*.*



3 **Press the [Network Settings] key.**

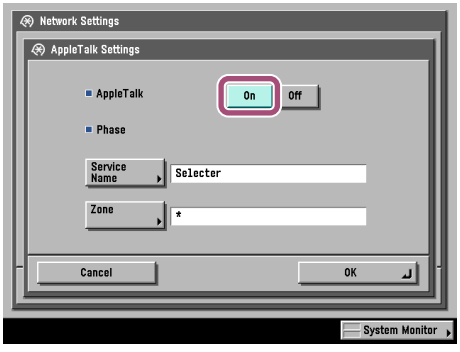


4 **Press the [AppleTalk Settings] key.**



5 **Select AppleTalk [On].**

Selecting [Off] disables AppleTalk.



6 **Press the [Service Name] key and enter the name of the printer.**

The name you enter here appears in the Macintosh Chooser window.

IMPORTANT

- *The name of the printer can have up to 32 characters.*
- *If there is more than one printer in the same zone, each printer must have a unique name.*

7 **Press the [Zone] key to enter a zone name.**

If you are using a network that is set up in zones, enter the name of the zone.

8 **Confirm the settings you entered and press the [OK] key.**

9 **Press the [Done] key.**

Repeat until the Additional Functions screen closes.

10 **Restart the machine.**

Turn the printer unit power switch, the scanner unit power switch, and the control panel power switch to OFF, and then turn the power to ON after waiting at least 3 seconds.

The protocol settings are now complete.

Using the Network and Printer Settings with NetSpot

CHAPTER 5

This chapter describes the NetSpot utility software used for managing networks and printers.

Introduction 5-2
- Minimum Requirements 5-2
- Related Documentation 5-3

Installing and Using NetSpot 5-4
- Installation (Windows 95/98/NT/2000) 5-4
- Installation (Macintosh) 5-4
- Installation (UNIX) 5-5
- Configuration 5-6
- Overview of Network Device Management 5-6

Introduction

The Canon NetSpot utility provides easy network management of your Canon printer, copier, or fax machine using one or more network interfaces.

Minimum Requirements

NetSpot is compatible with the most popular network operating systems and workstation software. Following are the minimum requirements for using NetSpot on various platforms. Requirements for printing by means of a network can be found in the documentation for the specific network. Some devices are not supported by NetSpot on all platforms.

NetSpot for Microsoft

Microprocessor	Intel Pentium-compatible (or later)
Operating system	Windows 95/98, Windows NT 4.0, Windows 2000
Minimum RAM	16 MB
Minimum disk space	12 MB

NetSpot for Macintosh

Computer	Power Macintosh
Microprocessor	Power PC
Operating system	Macintosh OS 7.5.3 to 9.0 with Open Transport
Minimum RAM	12 MB
Minimum disk space	16 MB

NetSpot for UNIX

Computer	SPARC 5 or later (Server or Workstation)
Operating system	Sun Solaris 2.5 or later
Desktop environment	Open Windows 3.2 or later or Common Desktop Environment (CDE) 1.0 or later
Minimum RAM	32 MB
Minimum disk space	12 MB

Supported Protocols

NetSpot supports the following protocols for device communication. For information about protocols, frame types, and print applications you can use with your network, refer to the documentation for the specific network.

Windows	IPX/SPX[1], TCP/IP, NetBIOS[2]
Macintosh	TCP/IP, AppleTalk
UNIX	TCP/IP

(1) To use NetSpot in Novell NetWare environment, the following are required:

- Server software: NetWare version 3.x, 4.x, or 5.x
- Workstation software: Novell NetWare Client

(2) When using NetSpot with NetBIOS on Windows 95, you must upgrade to WinSock 2, available from the Microsoft World Wide Web site. (WinSock 2 is included in Windows 98/NT/2000.)

Related Documentation

The following documentation is available to help you use NetSpot:

- This *Network Guide*
- The *NetSpot User's Guide*

This *Network Guide* gives an overview of NetSpot and describes installation procedures.

The online *NetSpot User's Guide* in HTML format is copied to your hard disk during installation of NetSpot. You can read the online guide with a frames-compatible browser such as Netscape Navigator 3.0 (or later) or Microsoft Internet Explorer 3.0 (or later).
To access the *NetSpot User's Guide*, in NetSpot choose Contents from the Help menu (for Windows/UNIX), or choose NetSpot Help... from the Apple menu (Macintosh).

The readme.txt (Windows), Read Me (Macintosh), or README (UNIX) file, is located in the directory in which NetSpot is installed. This file contains last-minute information that could not be included in other documentation.

Installing and Using NetSpot

This section contains information about installing, configuring, and using NetSpot. It assumes that the network interface has been installed in the machine, as described in the documentation provided.

Installation (Windows 95/98/NT/2000)

1 **Insert the PostScript/PCL User Software CD-ROM into the CD-ROM drive.**

2 **Run the installation program.**

Find the subdirectory for the desired language in the \netspot\Windows directory on the CD-ROM. Run Setup.exe in that subdirectory, and follow the instructions that appear. You can install either an administrator or an end-user version of NetSpot. If you plan to monitor devices, install the end-user version. If you plan to configure as well as monitor devices, install the administrator version.

Installation (Macintosh)

1 **Insert the PostScript/PCL User Software CD-ROM into the CD-ROM drive.**

2 **Run the installation program.**

Find the subdirectory for the desired language in the \netspot directory on the CD-ROM. Double-click the Install programme icon in that subdirectory, and follow the instructions that appear. You can install either an administrator or an end-user version of NetSpot. If you plan to monitor devices, install the end-user version. If you plan to configure as well as monitor devices, install the administrator version.

Installation (UNIX)

IMPORTANT

- *Administrator functionality is available to a user who has the security privileges to operate as a supervisor or network administrator.*

1 **Log in as root.**

2 **Insert the PostScript/PCL User Software CD-ROM into the CD-ROM drive.**

3 **Find the subdirectory for the desired language in the /netspot/ux_sol directory on the CD-ROM.**

4 **Copy netspot-XXX.tar (XXX is a current version number) to a directory on the local drive, such as /opt, into which you want to install NetSpot. For example:**

#cd /opt

#cp /cdrom/cdrom0/netspot/ux_sol/language/netspot-vXXX-solaris.tar

#tar -xvf netspot-vXXX-solaris.tar

where XXX is the current version number

5 **Change directories to the new NetSpot directory.**

6 **From the # prompt, run the shell script as follows:**

#./install.sh

The results are saved in install.log, which includes variables that you need later.

7 **Edit.profile (Bourne shell), .kshrc (Korn shell), or .cshrc (C shell), and set the following environment variables:**

NETSPOT_HOME (directory in which NetSpot is installed)
NETSPOT_DB (directory in which the database of devices is to be located)
NETSPOT_HELP_BROWSER (browser for viewing NetSpot help files)
The browser's directory must be specified in the PATH environment variable.

LANG (language, such as C for US English, UK_eng for UK English, De for German, Fr for French, Es for Spanish, or It for Italian)
NLSPATH (directory containing netspot.cat)
Recommended paths, where %L is the value of LANG, are:

/usr/openwin/lib/msg/%L/%N.cat (for OpenWindows Desktop) and
/usr/dt/lib/nls/msg/%L/%N.cat (for CDE).

XAPPLRESDIR or XENVIRONMENT (location to which the install script copied the NetSpot resource)

8 **To install devices, run**

#./cpinstall.sh DEVICE_ID DEVICE_NAME IP_ADDRESS

where

DEVICE_ID is the 12-digit MAC address
DEVICE_NAME is the name you want to assign to the device
IP_ADDRESS is in dotted decimal notation (xxx.xxx.xxx.xxx)

9 **Follow the shell's instructions.**

Configuration

After you have installed NetSpot, you must enable communication with the network interface. For instructions on configuring the network, refer to "Getting Started" in the online *NetSpot User's Guide*.

Overview of Network Device Management

NetSpot enables you to set up and control most Canon devices that contain a network interface. Its features include the following:

- Configures protocols
  The Setup tool enables you to configure protocols and print applications.
- Displays device features and status
  The Features tool displays features such as paper tray settings, duplexing capabilities, and finisher options. A list of these features can help you decide which device is appropriate for a job.

  The Status tool displays the status (such as readiness and error messages) of a device.
- Manages print jobs (on some platforms and protocols)
  The Jobs tool displays the document name, job status, job size, and job owner for each job.

  It also enables you to manipulate jobs. For example, if a job is in the queue of a device that becomes unavailable, you can move the job to another device's queue. Or, if you are in a hurry for a particular job, you can move it up in a queue.

Appendix

CHAPTER 6

This chapter describes how to resolve problems during operation, how to verify network settings, and provides lists of control panel menus as well as the machine's principal network specifications.

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Troubleshooting

Printing Problems and Solutions

Unable to Print from a TCP/IP Network (Windows 95/98/NT/2000)

Cause 1 Printer and cable are not properly connected.

Solution After checking the following connections, turn the machine's power switches to OFF, and then turn them to ON again.

- Check that the machine is connected to the network using the proper cable.

Cause 2 TCP/IP network is not properly set up.

Solution Check the following:

- Check that the IP addresses are properly set up. If the IP addresses were set using DHCP, BOOTP, or RARP, then confirm that they are operating.

Cause 3 The computer that is printing is not properly set up.

Solution Check the following:

- Check that the proper printer driver is installed. If you are printing from Windows95/98/NT/2000, each computer must have a printer driver installed. For instructions on installing printer drivers, see the *PCL Driver Guide* or the *Setup Guide*.
- Check that the correct printer is set as the output destination for the computer that is printing. In Windows 95/98, check the output destination in the Control Panel Printer or Print Manager.
- If you are using Windows 95/98, check that the spooling settings are made correctly. (See "Installing the Printer Driver and Specifying the Printer Destination Setting, LPD Settings (Windows 95/98)," steps 3 to 5, on p. 2-15.)

Cause 4 The name of the file being printed may be too long.

Solution Normally LPR (or the Microsoft TCP/IP Printer, if you are using Windows NT/2000) sends jobs either under the name of the application software used for printing, or the file name. However, a job name longer than 255 bytes cannot be sent to the printer. To correct this problem, rename the file with a shorter name.

Unable to Print from a NetWare Network

Cause 1 Printer and cable are not properly connected.

Solution After checking the following connections, turn the machine's power switches to OFF, and then turn them to ON again.

- Check that the machine is connected to the network using the proper cable.

Cause 2 The NetWare network may not be properly set up.

Solution Check the following:

- At the MS-DOS prompt, enter the WHOAMI command, and check that the NetWare file server is running.
- Check that there is sufficient disk space on the NetWare file server. Large files cannot be printed if there is insufficient disk space.
- Start NetSpot, NWADMIN, or PCONSOLE, and check that the print queue is set up properly and is active.

Cause 3 If you are using an NDS PServer or Bindery PServer and the print server has a password setting, the machine's password setting is incorrect.

Solution Perform the following steps to correct the machine's password setting:

- Confirm the password in the NetWare printer server for printing on the machine.
- Press the Additional Functions key, then press the [System Settings], [Network Settings], and [NetWare Settings] keys, in that order, to open the NetWare Settings screen.
- Press the Print Service [Settings] key, and enter the correct password in the [Print Server Password] space. (The setting becomes effective when the machine is restarted.)

Cause 4 The machine is currently sending a file to the NetWare file server.

Solution Print after file sending is complete. In some cases it is not possible to print while the machine is sending a file to a server.

Unable to Print from an AppleTalk Network

Cause 1 Printer and cable are not properly connected.

Solution After checking the following connections, and turn the machine's power switches to OFF, and then turn them to ON again.

- Check that the machine is connected to the network using the proper cable.

Cause 2 The AppleTalk network is not properly set up.

Solution Check the following:

- Check the AppleTalk settings by referring to "Setting Up AppleTalk," on p. 4-4. In particular, check the following:
  Set the [Phase] to a valid phase type.
  Set the [Zone] to the zone to which the printer belongs.

Cause 3 The computer that is printing is not properly set up.

Solution Check the following:

- In the Chooser, check that the proper printer driver has been installed.
- In the Chooser, check that the proper printer has been selected as the destination.
- In the Chooser, check that AppleTalk is active.
- In the Network or AppleTalk control panel, check that the AppleTalk connection method is EtherTalk or Ethernet.

Unable to Print from a TCP/IP Network (UNIX)

Cause 1 Printer and cable are not properly connected.

Solution After checking the following connections, turn the machine's power switches to OFF, and then turn them to ON again:

- Check that the printer is connected to the network using the proper cable.

Cause 2 The TCP/IP network may not be properly set up.

Solution Check the following:

- Check that the IP addresses are properly set up. If the IP addresses were set using DHCP, BOOTP, or RARP, then confirm that they are operating.

Cause 3 The name of the file being printed may be too long.

Solution Normally LPR sends jobs either under the name of the application software used for printing, or the file name. However, a job name longer than 256 bytes cannot be sent to the printer. To correct this problem, rename the file with a shorter name.

File Sharing Problems and Solutions

Unable to Share Files/Send Files (Windows File Sharing)

Cause 1 File sharing settings for the shared folder are incorrect.

Solution Check the following settings:

- On the computer you are using, go into the Explorer, double-click Entire Network, and check whether the computer you want to share is listed there.
- Or from the Explorer select Tools – Find – Computer…, enter the name of the computer you want to share, and check whether that computer is on the network.
- If the computer you want to share is listed, double-click on its icon and see whether the shared name of the folder you want to share is listed.
- If the shared name does not appear, See "File Sharing Settings," on p. 2-25, and check the shared folder settings.

Unable to Share Files/Send Files (FTP)

Cause 1 The FTP server is not set correctly.

Solution Perform the following steps to check the server status. (If you are using Windows, perform these steps from the MS-DOS prompt.)

- Example using UNIX, where the FTP server has the IP address 192.168.1.195

```
U:>ftp 192.168.1.195          ← Connect to server
Connected to 192.168.37.195.
220 canmfs FTP server (UNIX(r) System V Release 4.0) ready.
User (192.168.37.195:(none)): user_name      ← User login
331 Password required for user_name.
Password:      ← Enter password
230 User user_name logged in.
ftp> cd /export/share          ← Move to file destination directory
250 CWD command successful.
ftp> bin       ← Set file transfer type (binary)
200 Type set to I.
ftp> put sample.tif        ← Set transfer file name for verification
ftp> by        ← Cut off server connection
221 Goodbye
```

If the above are confirmed and file sharing still does not operate normally, consult the network administrator for the environment you are using.

Cause 2 The machine's address [User] setting contains one or more spaces after the User name.

Solution Ensure that the machine's address [User] setting does not contain spaces after the User name.

Cause 3 The machine was turned to OFF while sending a file to the FTP server, and when the machine was turned back to ON, it attempted to resend the file. (When a Windows NT/2000 FTP server is being used.)

Solution If power to the machine is turned to OFF while a file is being sent to the FTP server, the FTP server may hold the file in a writing-in-progress state. Therefore, this file cannot be overwritten even when the machine re-connects and sends the same file again. Stop the FTP server temporarily and delete the file that has not finished sending, so it can be sent again.

Unable to Share Files/Send Files (NetWare)

Cause 1 File sharing settings for the NetWare file server are incorrect.

Solution Check the following settings:

In Bindery Mode

- Use your computer to log in and select NetWare client, then from the Explorer, double-click Entire Network, and check whether the NetWare server you want to share is listed there. Or from the Explorer select Tools – Find – Computer…, enter the name of the NetWare server you want to share, and check whether that NetWare server is on the network. (The name of this server will be the Host Name when you set up the address of the machine.)
- Open the server, and open the folder for file sharing. (The path to this folder will be the File Path when you set up the address of the machine.)
- Check that files can be written to this folder.

In NDS Mode

- Log in as a user with Admin or equivalent authority, then from the Explorer, double-click Entire Network, and check whether the NetWare server you want to share is listed there. Or from the Explorer select Tools – Find – Computer…, enter the name of the NetWare server you want to share, and check whether that NetWare server is on the network.
- Start the NWADMIN for this server. If Root is displayed at the upper left corner of the screen, the layer below it is the context. If Root is not displayed, go to the View menu, and select Go Up a Level to change to the display below Root. (The name of this context will be the value input to the right side of the expression [o=] when you set up the address of the machine.)
- With Root appearing on the screen, go to the View menu and select Go Up a Level, to open the Set Context dialog box. The tree name will be displayed in the Tree space. (This tree name will be the value input to the right side of the expression '.TREE=' when you set up the address of the machine.)

If the above are confirmed and file sharing still does not operate normally, consult the network manager for the environment you are using.

Cause 2 The file sharing server and print server are set up as the same NetWare server (when the print server is an NDS PServer or Bindery PServer).

Solution When the print server is NDS PServer or Bindery PServer, the same NetWare server cannot be set up as both the file sharing server and the print server. The machine cannot log in twice as the NetWare server at the same time. When the print server is NDS PServer or Bindery PServer, set up the file sharing server on a different NetWare server. If both the print server and file sharing server are set up on the same NetWare server, the print service must be changed to Remote Print mode.

Cause 3 There is a print job in the printing queue, and the machine is still receiving this job.

Solution Send the file after the print job has been completely received. The machine cannot send files while it is receiving a print job.

Control Panel Menu List

The machine control panel provides the following configuration of menus for network settings. For details, see the related pages in this manual. (*Indicates factory settings.)

Additional Functions			Setting Description	Remarks
System Settings				
Network Settings				
	TCP/IP Settings			
	IP Address		IP address 0.0.0.0*	
	Subnet Mask		IP address 0.0.0.0*	
	Gateway Address		IP address 0.0.0.0*	
	DNS Server		IP address 0.0.0.0*	
	Enable DHCP		On/Off*	
	Enable RARP		On/Off*	
	Enable BOOTP		On/Off*	
	Host Name		Enter device host name, max. 47 characters	
	Domain Name		Network domain name to which device belongs, max. 47 characters	
	NetWare Settings			
	NetWare		On/Off*	
	Frame Type		Auto Detect*/Ethernet II/802.2/802.3/SNAP	
	IPX External Network Number		auto set, display only	
	Node Number		auto set, display only	
	Print Service		Bindery PServer/RPrinter/NDS PServer*/ NPrinter	
	Setting		The following menu windows appear, depending on the print service	
		Bindery PServer Selected:		
		Print Server	47 characters	
		File Server	47 characters	
		Print Server Password	20 characters	
		Service Mode	Service only currently mounted form/ Change forms as needed/ Minimise form changes across print queues/ Minimise form changes within print queues*	
		Printer Number	0* to 15	
		Polling Interval	5 sec.* (1 to 15 sec.)	
		Printer Form	0* to 255	
		Buffer Size	1 to 20* (KB units)	

Additional Functions			Setting Description	Remarks
System Settings				
		RPrinter Selected:		
		Print Server	47 characters	
		File Server	47 characters	
		Printer Number	0* to 15	
		NDS Pserver selected:		
		Print Server	64 characters	
		Tree	32 characters	
		Context	256 characters	
		Print Server Password	20 characters	
		Service Mode	Service only currently mounted form/ Change forms as needed/ Minimise form changes across print queues/ Minimise form changes within print queues*	
		Printer Number	0* to 254	
		Polling Interval	5 sec.* (1 to 255 sec.)	
		Printer Form	0* to 255	
		Buffer Size	3 to 20* (KB units)	
		NPrinter Selected:		
		Print Server	64 characters	
		Tree	32 characters	
		Context	256 characters	
		Printer Number	0* to 254	
	AppleTalk Settings			
	AppleTalk		On*/Off	
	Phase		Phase 2 (fixed)	
	Service Name		32 characters	
	Zone		32 characters	
	Ethernet Driver Settings			
	Auto Detect		On*/Off	
	Communication Mode		Half Duplex*/Full Duplex	
	Ethernet Type		10 Base-T*/100 Base-TX	
	MAC Address		display only	
	E-mail/I-Fax			
	SMTP Server		Max. 48 characters	
	E-mail Address		Max. 64 characters	
	POP Server		Max. 48 characters	
	POP Address		Max. 32 characters	
	POP Password		Max. 32 characters	
	POP Interval		0* (1 to 99 minutes)	

To Confirm Settings

You can print a user data list to confirm the network settings made from the machine's touch panel display.

Use the following procedures to print a user data list.

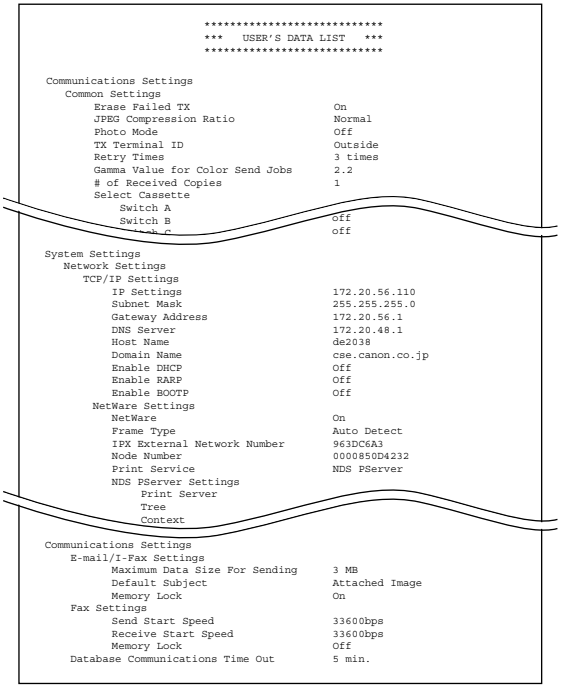
1 Press the Additional Functions key.

2 On the touch panel display, press the [Report Settings] key and then press [Print List] – [User's Data List].

You will see a box asking "Do you wish to print list?" Press [Yes] to print the list.

NOTE

- *You can select [System Settings] - [Network Settings] to check the machine's network settings. For information about other items, see the* Reference Guide*.*



```
                          ****************************
                          ***   USER'S DATA LIST   ***
                          ****************************

Communications Settings
   Common Settings
        Erase Failed TX                     On
        JPEG Compression Ratio              Normal
        Photo Mode                          Off
        TX Terminal ID                      Outside
        Retry Times                         3 times
        Gamma Value for Color Send Jobs     2.2
        # of Received Copies                1
        Select Cassette
            Switch A
            Switch B                        Off
            Switch C                        Off

System Settings
   Network Settings
      TCP/IP Settings
           IP Settings                      172.20.56.110
           Subnet Mask                      255.255.255.0
           Gateway Address                  172.20.56.1
           DNS Server                       172.20.48.1
           Host Name                        de2038
           Domain Name                      cse.canon.co.jp
           Enable DHCP                      Off
           Enable RARP                      Off
           Enable BOOTP                     Off
      NetWare Settings
           NetWare                          On
           Frame Type                       Auto Detect
           IPX External Network Number      963DC6A3
           Node Number                      0000850D4232
           Print Service                    NDS PServer
           NDS PServer Settings
                Print Server
                Tree
                Context

Communications Settings
    E-mail/I-Fax Settings
          Maximum Data Size For Sending     3 MB
          Default Subject                   Attached Image
          Memory Lock                       On
    Fax Settings
          Send Start Speed                  33600bps
          Receive Start Speed               33600bps
          Memory Lock                       Off
    Database Communications Time Out        5 min.
```

Specifications

Hardware Specifications

Network Interface: 10 Base-T/100 Base-TX (RJ45)

Software Specifications

Protocol Supported

IPX/SPX	Frame type: 802.2/802.3/Ethernet II/802.2 SNAP/Auto Detect
	Print applications: Bindery PServer/NDS PServer/RPrinter/NPrinter
TCP/IP	Frame type: Ethernet II
	Print applications: LPD/RAW/IPP
AppleTalk	Frame type: 802.2 SNAP
	Print applications: PAP (Printer Access Protocol)

NOTE

• *Specifications are subject to change without notice.*

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